

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: July 25, 2003, 12:38:05 ; Search time 24.7086 Seconds

(without alignments)  
315.081 Million cell updates/sec

Title: US-09-987-357-1

Perfect score: 1 CTGVPHPQAFNCSDLVIR.....ACLPREPGICTWQSLRQIA 184

Sequence: 1 CTGVPHPQAFNCSDLVIR.....ACLPREPGICTWQSLRQIA 184

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents RA:

1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep:\*

2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*

3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*

4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*

5: /cgn2\_6/ptodata/1/1aa/6C.COMB.pep:\*

6: /cgn2\_6/ptodata/1/1aa/6D.COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1009	100.0	184	US-09-452-817-1	Sequence 1, Appli
2	1009	100.0	207	US-08-588-163-5	Sequence 5, Appli
3	1009	100.0	207	US-09-111-070-5	Sequence 5, Appli
4	1009	100.0	207	US-08-849-764C-5	Sequence 5, Appli
5	1009	100.0	207	US-09-262-087-5	Sequence 5, Appli
6	1009	100.0	207	US-08-463-261B-11	Sequence 11, Appli
7	1009	100.0	207	US-09-540-530-1	Sequence 1, Appli
8	1009	100.0	207	US-08-134-231C-23	Sequence 23, Appli
9	893	88.5	207	US-08-134-231C-22	Sequence 22, Appli
10	817.5	81.0	206	US-08-134-231C-24	Sequence 24, Appli
11	761.5	75.5	205	US-08-134-231C-25	Sequence 25, Appli
12	579	57.4	106	US-09-452-817-2	Sequence 2, Appli
13	381.5	37.8	212	US-08-134-231C-29	Sequence 29, Appli
14	377.5	37.4	198	US-08-134-231C-15	Sequence 15, Appli
15	377.5	37.4	211	US-08-588-163-4	Sequence 4, Appli
16	377.5	37.4	211	US-09-111-070-4	Sequence 4, Appli
17	377.5	37.4	211	US-09-540-530-3	Sequence 3, Appli
18	377.5	37.4	211	US-08-134-231C-13	Sequence 13, Appli
19	377.5	37.4	220	US-08-588-163-3	Sequence 3, Appli
20	377.5	37.4	220	US-09-111-070-3	Sequence 3, Appli
21	377.5	37.4	220	US-09-540-530-2	Sequence 2, Appli
22	377.5	37.4	220	US-08-134-231C-27	Sequence 27, Appli
23	372	36.9	210	US-08-849-764C-4	Sequence 4, Appli
24	372	36.9	210	US-09-262-087-4	Sequence 4, Appli
25	372	36.9	210	US-08-463-261B-10	Sequence 10, Appli
26	370.5	36.7	220	US-08-134-231C-26	Sequence 26, Appli
27	369.5	36.6	218	US-08-849-764C-3	Sequence 3, Appli

28	369.5	36.6	218	US-09-262-087-3	Sequence 3, Appli
29	369.5	36.6	218	US-08-463-261B-9	Sequence 9, Appli
30	351	34.8	224	US-08-588-163-2	Sequence 2, Appli
31	351	34.8	224	US-09-111-070-2	Sequence 2, Appli
32	351	34.8	224	US-08-849-764C-2	Sequence 2, Appli
33	351	34.8	224	US-09-262-087-2	Sequence 2, Appli
34	351	34.8	224	US-08-463-261B-2	Sequence 2, Appli
35	351	34.8	224	US-09-540-530-4	Sequence 4, Appli
36	351	34.8	224	US-09-901-904-2	Sequence 2, Appli
37	351	34.8	224	PCT-US94-14498A-2	Sequence 2, Appli
38	279	27.7	164	US-08-134-231C-17	Sequence 17, Appli
39	260	25.8	171	US-08-134-231C-28	Sequence 28, Appli
40	124	12.3	25	US-08-474-696A-2	Sequence 2, Appli
41	105	10.4	22	US-08-474-696A-5	Sequence 5, Appli
42	105	10.4	22	US-08-474-696A-6	Sequence 6, Appli
43	105	10.4	25	US-08-474-696A-4	Sequence 4, Appli
44	88.5	8.8	512	US-07-779-890-4	Sequence 4, Appli
45	88.5	8.8	512	US-07-779-890-4	Sequence 4, Appli

## ALIGNMENTS

RESULT 1					
US-09-452-817-1					
Sequence 1, Application US/09452817					
Patent No. 6342374					
GENERAL INFORMATION:					
APPLICANT: Carmichael, David F					
APPLICANT: Anderson, David C					
APPLICANT: Stricklin, George P					
APPLICANT: Weigus, Howard G					
TITLE OF INVENTION: Human Collagenase Inhibitor, Recombinant Vector System					
TITLE OF INVENTION: For Using Same And Recombinant-DNA Method For					
TITLE OF INVENTION: Manufacture Of Same					
FILE REFERENCE: Serial No. 6342374 09/452,817					
CURRENT FILING DATE: 2001-06-22					
PRIOR APPLICATION NUMBER: 08/474,553					
PRIOR FILING DATE: 1995-06-07					
PRIOR APPLICATION NUMBER: 08/050,739					
PRIOR FILING DATE: 1993-04-21					
PRIOR APPLICATION NUMBER: 07/853,018					
PRIOR FILING DATE: 1992-03-18					
PRIOR APPLICATION NUMBER: 07/517,475					
PRIOR FILING DATE: 1990-05-01					
PRIOR APPLICATION NUMBER: 07/320,923					
PRIOR FILING DATE: 1989-03-08					
PRIOR APPLICATION NUMBER: 06/784,319					
PRIOR FILING DATE: 1985-10-04					
PRIOR APPLICATION NUMBER: 06/699,181					
PRIOR FILING DATE: 1985-02-05					
NUMBER OF SEQ ID NOS: 20					
SOFTWARE: Patent In Ver. 2.0					
SEQ ID NO 1					
LENGTH: 184					
TYPE: prt					
ORGANISM: Homo sapiens					
US-09-452-817-1					
Query Match					
Best Local Similarity: 100.0%; Pred. No. 9,7e-117;					
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY 1 CTGVPHPQAFNCSDLVIRAKKVGTPPEVNTTLYQREYIMTQYKGFQALGPAADIRF 60					
DB 1 CTGVPHPQAFNCSDLVIRAKKVGTPPEVNTTLYQREYIMTQYKGFQALGPAADIRF 60					
QY 61 VYTPAMEVCGYFRRSHNRSEEFLLAKQDGLHITTCFVAWNSLSLAORGFRTKY 120					
DB 61 VYTPAMEVCGYFRRSHNRSEEFLLAKQDGLHITTCFVAWNSLSLAORGFRTKY 120					
QY 121 TVGCEECTVFPCLSIPCKLQSGTHCLWTDQLQSEKGFQSRHLACLPREPGICTWQSLR 180					

Db 121 TVGCECTVFPCLSTPCKLQSGTHCLMTDQLQSGSEKGFQSRHLACLPREPGICTWQSLR 180  
QY 181 SQIA 184  
Db 181 SQIA 184

## RESULT 2

US-08-588-163-5  
Sequence 5, Application US/08588163  
Patent No. 5643752  
GENERAL INFORMATION:  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: A NOVEL TISSUE INHIBITOR OF  
NUMBER OF SEQUENCES: 5  
TITLE OF INVENTION: METALLOPROTEINASES  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/588,163  
FILING DATE: Herewith  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
ATTORNEY/AGENT INFORMATION:  
FILING DATE:  
NAME: Luther, Barbara J.  
REGISTRATION NUMBER: 33,954  
REFERENCE/DOCKET NUMBER: PF-0053  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-852-0195  
TELEX:  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 207 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: METALLOPROTEINASES  
CLONE: TIMP-1  
US-08-588-163-5

Query Match 100.0%; Score 1009; DB 1; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.2e-116;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPTAFACNSDLVIRAKFVGTPEVNOITLYORYEIKMTXWKGFQALGDAADIRF 60  
Db 24 CTCVPHPTAFACNSDLVIRAKFVGTPEVNOITLYORYEIKMTXWKGFQALGDAADIRF 83  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTKTY 120  
Db 84 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTKTY 143  
QY 121 TVGCECTVFPCLSTPCKLQSGTHCLMTDQLQSGSEKGFQSRHLACLPREPGICTWQSLR 180  
Db 144 TVGCECTVFPCLSTPCKLQSGTHCLMTDQLQSGSEKGFQSRHLACLPREPGICTWQSLR 203

*DATA  
of interest to Expert*

QY 181 SQIA 184  
Db 204 SQIA 207

## RESULT 3

US-09-111-070-5  
Sequence 5, Application US/09111070  
Patent No. 5914392  
GENERAL INFORMATION:  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: A NOVEL TISSUE INHIBITOR OF  
NUMBER OF SEQUENCES: 5  
TITLE OF INVENTION: METALLOPROTEINASES  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/111,070  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/588,163  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
FILING DATE:  
NAME: Luther, Barbara J.  
REGISTRATION NUMBER: 33,954  
REFERENCE/DOCKET NUMBER: PF-0053  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-852-0195  
TELEX:  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 207 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: METALLOPROTEINASES  
CLONE: TIMP-1  
US-09-111-070-5

Query Match 100.0%; Score 1009; DB 2; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.2e-116;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPTAFACNSDLVIRAKFVGTPEVNOITLYORYEIKMTXWKGFQALGDAADIRF 60  
Db 24 CTCVPHPTAFACNSDLVIRAKFVGTPEVNOITLYORYEIKMTXWKGFQALGDAADIRF 83  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTKTY 120  
Db 84 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTKTY 143  
QY 121 TVGCECTVFPCLSTPCKLQSGTHCLMTDQLQSGSEKGFQSRHLACLPREPGICTWQSLR 180  
Db 144 TVGCECTVFPCLSTPCKLQSGTHCLMTDQLQSGSEKGFQSRHLACLPREPGICTWQSLR 203  
QY 181 SQIA 184  
Db 204 SQIA 207

*AP for Timp*

RESULT 4

US-08-849-764C-5  
Sequence 5, Application US/08849764C  
Patent No. 6300310  
GENERAL INFORMATION:

APPLICANT: GREENE, JOHN M  
ROSEN, CRAIG

TITLE OF INVENTION: HUMAN TISSUE INHIBITOR OF  
METALLOPROTEINASE-4

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESS: HUMAN GENOME SCIENCES, INC.

STREET: 9410 KEY WEST AVENUE

CITY: ROCKVILLE

STATE: MD

COUNTRY: USA

ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/849,764C

FILING DATE: 19-Sep-1997

CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: MICHELE M. WALES

REGISTRATION NUMBER: 43,975

REFERENCE/DOCKET NUMBER: PFI48US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 301-309-8504

TELEFAX: 301-309-8439

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 207 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 5

US-08-849-764C-5

Query Match 100.0%; Score 1009; DB 4; Length 207;

Best Local Similarity 100.0%; Pred. No. 1.2e-116;

Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 1 CTCVPHQIAFCNSDLVIRAKFVGTPEVNTTLYQRYEIKMTXKYGKGFALGDAADIRF 60

24 CTCVPHQIAFCNSDLVIRAKFVGTPEVNTTLYQRYEIKMTXKYGKGFALGDAADIRF 83

DB 61 VTPAMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSFVAPWNSISLAQRGFTTXY 120

84 VTPAMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSFVAPWNSISLAQRGFTTXY 143

DB 121 TVGCECTVFPCLSPCKLQSGTHCLMTDQLLQSGKGFQSRHLACLPREPGLCTWOSLR 180

144 TVGCECTVFPCLSPCKLQSGTHCLMTDQLLQSGKGFQSRHLACLPREPGLCTWOSLR 203

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

Not claims to SEQ ID #2  
#5

TITLE OF INVENTION: HUMAN TISSUE INHIBITOR OF  
METALLOPROTEINASE-4

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESS: HUMAN GENOME SCIENCES, INC.

STREET: 9410 KEY WEST AVE

CITY: ROCKVILLE

STATE: MD

COUNTRY: USA

ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/262,087

FILING DATE: 04-MAR-1999

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/463,261

FILING DATE: 05-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US94/14498

FILING DATE: 13-FEB-1994

ATTORNEY/AGENT INFORMATION:

NAME: A. ANDERS BROOKES

REGISTRATION NUMBER: 36,373

REFERENCE/DOCKET NUMBER: PFI48PDI1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 301-309-8504

TELEFAX: 301-309-8439

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 207 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-262-087-5

Query Match 100.0%; Score 1009; DB 4; Length 207;

Best Local Similarity 100.0%; Pred. No. 1.2e-116;

Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 1 CTCVPHQIAFCNSDLVIRAKFVGTPEVNTTLYQRYEIKMTXKYGKGFALGDAADIRF 60

24 CTCVPHQIAFCNSDLVIRAKFVGTPEVNTTLYQRYEIKMTXKYGKGFALGDAADIRF 83

DB 61 VTPAMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSFVAPWNSISLAQRGFTTXY 120

84 VTPAMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSFVAPWNSISLAQRGFTTXY 143

DB 121 TVGCECTVFPCLSPCKLQSGTHCLMTDQLLQSGKGFQSRHLACLPREPGLCTWOSLR 180

144 TVGCECTVFPCLSPCKLQSGTHCLMTDQLLQSGKGFQSRHLACLPREPGLCTWOSLR 203

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

DB 181 SQIA 184

204 SQIA 207

Not claims to SEQ ID #2  
#5

to polyacetaldehyde

CITY: ROCKVILLE  
STATE: MARYLAND  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/463,261B  
FILING DATE: 05-JUN-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/14498  
FILING DATE: 13-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: KENLEY K. HOOVER  
REGISTRATION NUMBER: 40,302  
REFERENCE/DOCKET NUMBER: PF148P1  
TELEPHONE: 301-610-5790  
TELEFAX: 301-610-8439  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 207 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
US-08-463-261B-11

Query Match 100.0%; Score 1009; DB 4; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.2e-116;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHQPTAFNCSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 24 CTCVPHQPTAFNCSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 83  
QY 61 VTPPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWNSLSLAQRGFTTXY 120  
DB 84 VTPPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWNSLSLAQRGFTTXY 143  
QY 121 TVGCECTVFPCLSTIPCKLQSGTHCLMTDOLQSGSEKGFOSRHACLPRPGLCTWOSLR 180  
DB 144 TVGCECTVFPCLSTIPCKLQSGTHCLMTDOLQSGSEKGFOSRHACLPRPGLCTWOSLR 203

181 SQIA 184  
204 SQIA 207

RESULT 7  
US-09-540-530-1  
Sequence 1, Application US/09540530  
Patent No. 6534635  
GENERAL INFORMATION:  
APPLICANT: Miyazaki, Kaoru  
APPLICANT: Higashi, Shouichi  
TITLE OF INVENTION: MODIFIED TIMP  
FILE REFERENCE: 159-57  
CURRENT APPLICATION NUMBER: US/09/540,530  
CURRENT FILING DATE: 2000-03-31  
PRIOR APPLICATION NUMBER: JP 95142/1999  
PRIOR FILING DATE: 1999-04-01  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 1  
LENGTH: 207  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:

modified  
Timp

OTHER INFORMATION: Description of Artificial Sequence: modified TIMP  
US-09-540-530-1

Query Match 100.0%; Score 1009; DB 4; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.2e-116;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHQPTAFNCSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 24 CTCVPHQPTAFNCSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 83  
QY 61 VTPPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWNSLSLAQRGFTTXY 120  
DB 84 VTPPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWNSLSLAQRGFTTXY 143  
QY 121 TVGCECTVFPCLSTIPCKLQSGTHCLMTDOLQSGSEKGFOSRHACLPRPGLCTWOSLR 180  
DB 144 TVGCECTVFPCLSTIPCKLQSGTHCLMTDOLQSGSEKGFOSRHACLPRPGLCTWOSLR 203  
QY 181 SQIA 184  
DB 204 SQIA 207

RESULT 8  
US-08-134-231C-23  
Sequence 23, Application US/08134231C  
Patent No. 6562596  
GENERAL INFORMATION:  
APPLICANT: Silbiger, Scott M.  
Koski, Raymond A.  
TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type  
Three (TIMP-3) Composition and Methods  
NUMBER OF SEQUENCES: 42  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: District of Columbia  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/134,231C  
FILING DATE: 06-Oct-1993  
CLASSIFICATION: <Unknown>  
INFORMATION FOR SEQ ID NO: 23:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 207 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 23:  
US-08-134-231C-23  
Query Match 100.0%; Score 1009; DB 4; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.2e-116;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DNA's  
& Vector

QY 1 CTCVPHQPTAFNCSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 24 CTCVPHQPTAFNCSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 83  
QY 61 VTPPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWNSLSLAQRGFTTXY 120  
DB 84 VTPPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWNSLSLAQRGFTTXY 143  
QY 121 TVGCECTVFPCLSTIPCKLQSGTHCLMTDOLQSGSEKGFOSRHACLPRPGLCTWOSLR 180

Db 144 TVGCECTVFPCLSTIPCKLQSGTHCLMTDQLQSGSEKFGQSRHACLPRPGLCTWQSLR 203  
QY 181 SQIA 184  
Db 204 SQIA 207

RESULT 9  
US-08-134-231C-22  
; Sequence 22, Application US/08134231C  
; Patent No. 6562596  
; GENERAL INFORMATION:  
; APPLICANT: Silbiger, Scott M.  
; Koski, Raymond A.  
; TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type  
; Three (TIMP-3) Composition and Methods  
; NUMBER OF SEQUENCES: 42  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: District of Columbia  
; COUNTRY: USA  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/134,231C  
; FILING DATE: 06-Oct-1993  
; CLASSIFICATION: <Unknown>  
; INFORMATION FOR SEQ ID NO: 22:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 207 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
US-08-134-231C-22

Query Match 88.5%; Score 893; DB 4; Length 207;  
Best Local Similarity 87.0%; Pred. No. 2,6e-102;  
Matches 160; Conservative 10; Mismatches 14; Indels 0; Gaps 0;

Db 1 CTCVPHPQTAFGNSDLVIRAKFVGTPEVNOITLYQRYEIKMTXMYKGFQALGDAADIRF 60  
QY 24 CTCVPHPQTAFGNSDLVIRAKFVGTAEVNETALYQRYEIKMTXMYKGFQALGDAADIRF 83  
Db 61 VYTPMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSPVAPWNSLSLAQRGFTTXY 120  
QY 84 VYTPMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSPVAPWNSLSLAQRGFTTXY 143  
Db 121 TVGCECTVFPCLSTIPCKLQSGTHCLMTDQLQSGSEKFGQSRHACLPRPGLCTWQSLR 180  
QY 144 AAGCECTVFPCLSTIPCKLQSGTHCLMTDQLQSGSEKFGQSRHACLPRPGLCTWQSLR 203  
Db 181 SQIA 184  
QY 204 AQMA 207

RESULT 10  
US-08-134-231C-24  
; Sequence 24, Application US/08134231C  
; Patent No. 6562596  
; GENERAL INFORMATION:  
; APPLICANT: Silbiger, Scott M.  
; Koski, Raymond A.  
; TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type

; Three (TIMP-3) Composition and Methods  
; NUMBER OF SEQUENCES: 42  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: District of Columbia  
; COUNTRY: USA  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/134,231C  
; FILING DATE: 06-Oct-1993  
; CLASSIFICATION: <Unknown>  
; INFORMATION FOR SEQ ID NO: 24:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 206 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 24:  
US-08-134-231C-24

Query Match 81.0%; Score 817.5; DB 4; Length 206;  
Best Local Similarity 81.7%; Pred. No. 5.7e-93;  
Matches 147; Conservative 11; Mismatches 21; Indels 1; Gaps 1;

QY 1 CTCVPHPQTAFGNSDLVIRAKFVGTPEVNOITLYQRYEIKMTXMYKGFQALGDAADIRF 60  
Db 24 CTCVPHPQTAFGNSDLVIRAKFVGAPVNHITLYQRYEIKMTXMYKGFQALGDAADIRF 83  
QY 61 VYTPMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSPVAPWNSLSLAQRGFTTXY 120  
Db 84 VYTPMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSPVAPWNSLSLAQRGFTTXY 143  
QY 121 TVGCECTVFPCLSTIPCKLQSGTHCLMTDQLQSGSEKFGQSRHACLPRPGLCTWQSLR 180  
Db 144 AAGCECTVFPCLSTIPCKLQSGTHCLMTDQLQSGSEKFGQSRHACLPRPGLCTWQSLR 202

RESULT 11  
US-08-134-231C-25  
; Sequence 25, Application US/08134231C  
; Patent No. 6562596  
; GENERAL INFORMATION:  
; APPLICANT: Silbiger, Scott M.  
; Koski, Raymond A.  
; TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type  
; Three (TIMP-3) Composition and Methods  
; NUMBER OF SEQUENCES: 42  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: District of Columbia  
; COUNTRY: USA  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/134,231C  
; FILING DATE: 06-Oct-1993  
; CLASSIFICATION: <Unknown>  
; INFORMATION FOR SEQ ID NO: 25:  
; SEQUENCE CHARACTERISTICS:

LENGTH: 205 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 25:  
US-08-134-231C-25

Query Match 75.5%; Score 761.5; DB 4; Length 205;  
Best Local Similarity 73.7%; Pred. No. 4,8e-86;  
Matches 132; Conservative 25; Mismatches 21; Indels 1; Gaps 1;

QY 1 CTCVPPHPQTAFCSNDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 25 CSCAPHPQTAFCSNDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 84  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLLHTTSCFVAPMNSLSLAQRGFTKT 120  
DB 85 AYTTPMESLCSGYAHKSQNSSEFLLTGLRNLNLHLSACSFLVPMWTLSPAOQRAFSKTY 144  
121 TVGCEECTVFPCLISIPCKLQSGTHCLWTDQLQSGSEKGFQSRHLACLPREPGLCTWQSL 179  
145 SAGCGCTVFPCLISIPCKLQSGTHCLWTDQLQSGSEKGFQSRHLACLPREPGLCTWQSL 202

## RESULT 12

US-09-452-817-2  
Sequence 2, Application US/09452817  
Patent No. 6342374  
GENERAL INFORMATION:  
APPLICANT: Carmichael, David F  
APPLICANT: Anderson, David C  
APPLICANT: Stricklin, George P  
APPLICANT: Welgus, Howard G  
TITLE OF INVENTION: Human Collagenase Inhibitor, Recombinant Vector System  
TITLE OF INVENTION: For Using Same And Recombinant-DNA Method For  
FILE REFERENCE: Serial No. 6342374 09/452,817  
CURRENT FILING DATE: 2001-06-22  
PRIOR APPLICATION NUMBER: US/09/452,817  
PRIOR FILING DATE: 1995-06-07  
PRIOR APPLICATION NUMBER: 08/050,739  
PRIOR FILING DATE: 1993-04-21  
PRIOR APPLICATION NUMBER: 07/853,018  
PRIOR FILING DATE: 1992-03-18  
PRIOR APPLICATION NUMBER: 07/517,475  
PRIOR FILING DATE: 1990-05-01  
PRIOR APPLICATION NUMBER: 07/320,923  
PRIOR FILING DATE: 1989-03-08  
PRIOR APPLICATION NUMBER: 06/784,319  
PRIOR FILING DATE: 1985-10-04  
PRIOR APPLICATION NUMBER: 06/699,181  
PRIOR FILING DATE: 1985-02-05  
NUMBER OF SEQ ID NOS: 20  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO: 2  
LENGTH: 106  
TYPE: prt  
ORGANISM: Homo sapiens  
US-09-452-817-2

Query Match 57.4%; Score 579; DB 4; Length 106;  
Best Local Similarity 100.0%; Pred. No. 7e-64;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPPHPQTAFCSNDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 1 CTCVPPHPQTAFCSNDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 60  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLLHTTSCFVAPMNSLSLAQRGFTKT 106  
DB 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLLHTTSCFVAPMNSLSLAQRGFTKT 106

## RESULT 13

US-08-134-231C-29  
Sequence 29, Application US/08134231C  
Patent No. 6562596  
GENERAL INFORMATION:  
APPLICANT: Silbiger, Scott M.  
Koski, Raymond A.  
TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type  
NUMBER OF SEQUENCES: 42  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: District of Columbia  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/134,231C  
FILING DATE: 06-Oct-1993  
CLASSIFICATION: <Unknown>  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 212 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 29:  
US-08-134-231C-29

Query Match 37.8%; Score 381.5; DB 4; Length 212;  
Best Local Similarity 40.1%; Pred. No. 5.3e-39;  
Matches 71; Conservative 32; Mismatches 67; Indels 7; Gaps 4;

QY 1 CTCVPPHPQTAFCSNDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 59  
DB 25 CTCVPPHPQTAFCSNDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 81  
QY 60 FYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLLHTTSCFVAPMNSLSLAQRGFTKT 119  
DB 82 YIYTESSESLGV--KLEVNRYOYLITGRVYEGKVYTGLCWYERKMDRLTJSORGLNHR 139  
QY 120 TVGCEECTVFPCLISIPCKLQSGTHCLWTDQLQSGSEKGFQSRHLACLPREPGLCTW 176  
DB 140 YHLGC-GCKIRPCTYLLPCFATSKNECTWTDLSNFGHSGHQAQIACIQREVGICSW 195

## RESULT 14

US-08-134-231C-15  
Sequence 15, Application US/08134231C  
Patent No. 6562596  
GENERAL INFORMATION:  
APPLICANT: Silbiger, Scott M.  
Koski, Raymond A.  
TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type  
NUMBER OF SEQUENCES: 42  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: District of Columbia  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/134,231C  
 FILING DATE: 06-Oct-1993  
 CLASSIFICATION: <Unknown>  
 INFORMATION FOR SEQ ID NO: 15:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 198 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
 US-08-134-231C-15

Query Match 37.4%; Score 377.5; DB 4; Length 198;  
 Best Local Similarity 40.8%; Pred. No. 1.5e-38;  
 Matches 73; Conservative 33; Mismatches 62; Indels 11; Gaps 5;  
 QY 1 CTCVPHPTAFNCSDIVIRAKFVGTPEVNO---TTLVQRVEIKMTKWKYKGFQALGDAD 57  
 DB 11 CTCSPSHPDACNSDIVIRAKVKGKLVKEGPGTLV--YTIKQMKYRGFTKM---PH 65  
 QY 58 IRFVYTPAMESVCGYFHRSHNRSEFLIAGKLQDGLHITTCSPFVAPWNSLSLAQRGFT 117  
 DB 66 VOYIHTASESLCGI--KLEVNKKYQYLLTGRVYDGKMTYGLCNFVERWDQTLISQKGLN 123  
 QY 118 KTYTVGCECTVPFCLSIKCLQSGTHCLWTDQLQSGSEKGFQSRHLACLPREPGLCTW 176  
 DB 124 YRYHIGC-NCKIKSCYVLPCEVTSKNECLMTDMLSNFGYPQSGHYACIRQKGYCSW 181

RESULT 15  
 US-08-588-163-4  
 Sequence 4, Application US/08588163  
 Patent No. 5643752  
 GENERAL INFORMATION:  
 APPLICANT: Hawkins, Phillip R.  
 TITLE OF INVENTION: A NOVEL TISSUE INHIBITOR OF  
 METALLOPROTEINASES  
 NUMBER OF SEQUENCES: 5  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 STREET: 3174 Porter Drive  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: US  
 ZIP: 94304  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq Version 1.5  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/588,163  
 FILING DATE: Herewith  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Luther, Barbara J.  
 REGISTRATION NUMBER: 33,954  
 REFERENCE/DOCKET NUMBER: PF-0053  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-855-0555  
 TELEFAX: 415-852-0195  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 211 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 IMMEDIATE SOURCE:  
 LIBRARY: METALLOPROTEINASES  
 CLONE: TIMP-3  
 US-08-588-163-4

Query Match 37.4%; Score 377.5; DB 1; Length 211;  
 Best Local Similarity 40.8%; Pred. No. 1.6e-38;  
 Matches 73; Conservative 33; Mismatches 62; Indels 11; Gaps 5;  
 QY 1 CTCVPHPTAFNCSDIVIRAKFVGTPEVNO---TTLVQRVEIKMTKWKYKGFQALGDAD 57  
 DB 24 CTCSPSHPDACNSDIVIRAKVKGKLVKEGPGTLV--YTIKQMKYRGFTKM---PH 78  
 QY 58 IRFVYTPAMESVCGYFHRSHNRSEFLIAGKLQDGLHITTCSPFVAPWNSLSLAQRGFT 117  
 DB 79 VOYIHTASESLCGI--KLEVNKKYQYLLTGRVYDGKMTYGLCNFVERWDQTLISQKGLN 136  
 QY 118 KTYTVGCECTVPFCLSIKCLQSGTHCLWTDQLQSGSEKGFQSRHLACLPREPGLCTW 176  
 DB 137 YRYHIGC-NCKIKSCYVLPCEVTSKNECLMTDMLSNFGYPQSGHYACIRQKGYCSW 194

Search completed: July 25, 2003, 12:54:56  
 Job time: 24.7086 secs

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GenCore version 5.1.6  
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OM protein - protein search, using SW model

Run on: July 25, 2003, 12:53:51 ; Search time 49.4171 Seconds  
(without alignments)  
442.191 Million cell updates/sec

Title: US-09-987-357-1

Perfect score: 1009  
Sequence: 1 CTCVPHPHQTAFCNSDLVIR.....ACTPREPGICTWQSLRSQIA 184

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 451899 segs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

- Database :
- 1: /cgnt2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
  - 2: /cgnt2\_6/ptodata/2/pubpaa/PC7\_NEW\_PUB.pep.\*
  - 3: /cgnt2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
  - 4: /cgnt2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
  - 5: /cgnt2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
  - 6: /cgnt2\_6/ptodata/2/pubpaa/PC7US\_PUBCOMB.pep.\*
  - 7: /cgnt2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
  - 8: /cgnt2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
  - 9: /cgnt2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep.\*
  - 10: /cgnt2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep.\*
  - 11: /cgnt2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
  - 12: /cgnt2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
  - 13: /cgnt2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep.\*
  - 14: /cgnt2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
  - 15: /cgnt2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
  - 16: /cgnt2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
  - 17: /cgnt2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
  - 18: /cgnt2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1009	100.0	184	US-10-025-514-6	Sequence 6, Appli
2	1009	100.0	207	US-10-116-064-5	Sequence 5, Appli
3	1009	100.0	580	US-10-025-514-10	Sequence 18, Appli
4	1009	100.0	580	US-10-025-514-18	Sequence 18, Appli
5	1005	99.6	207	US-09-731-872-291	Sequence 291, App
6	691	68.5	128	US-10-025-514-24	Sequence 24, Appli
7	682	67.6	127	US-10-025-514-22	Sequence 22, Appli
8	682	67.6	522	US-10-025-514-14	Sequence 14, Appli
9	682	67.6	522	US-10-025-514-20	Sequence 20, Appli
10	667.5	66.2	183	US-09-925-301-1594	Sequence 1594, Ap
11	372	36.9	210	US-10-116-064-4	Sequence 4, Appli
12	369.5	36.6	218	US-10-116-064-3	Sequence 3, Appli
13	358	35.5	85	US-09-925-301-1593	Sequence 1593, Ap
14	351	34.8	224	US-09-901-904-2	Sequence 2, Appli
15	351	34.8	224	US-09-947-715-2	Sequence 2, Appli

16	351	34.8	224	14	US-10-116-064-2	Sequence 2, Appli
17	259.5	25.7	137	15	US-10-106-698-6827	Sequence 6827, Ap
18	241	23.9	91	10	US-09-925-300-1806	Sequence 1806, Ap
19	120	11.9	65	9	US-09-864-761-35200	Sequence 35200, A
20	88	8.7	20	9	US-09-055-671-7	Sequence 7, Appli
21	87	8.6	20	9	US-09-055-671-8	Sequence 8, Appli
22	82	8.1	19	8	US-08-803-954-2	Sequence 2, Appli
23	77	7.6	20	9	US-09-055-671-4	Sequence 4, Appli
24	75.5	7.5	292	9	US-09-815-242-10694	Sequence 10694, A
25	75	7.4	461	9	US-09-899-422-15	Sequence 15, Appli
26	75	7.4	461	10	US-09-898-234-15	Sequence 15, Appli
27	75	7.4	461	10	US-09-899-429A-25	Sequence 25, Appli
28	75	7.4	461	10	US-09-792-356-15	Sequence 15, Appli
29	73.5	7.3	444	15	US-10-153-668-308	Sequence 308, App
30	73	7.2	537	14	US-10-068-674-2	Sequence 2, Appli
31	70.5	7.0	415	9	US-09-826-212-6	Sequence 6, Appli
32	70.5	7.0	415	9	US-09-907-372-20	Sequence 20, Appli
33	70.5	7.0	415	10	US-09-935-727-8	Sequence 8, Appli
34	70.5	7.0	415	11	US-09-917-372-20	Sequence 20, Appli
35	70.5	7.0	415	15	US-10-186-643-6	Sequence 6, Appli
36	70.5	7.0	1588	14	US-10-000-512-2	Sequence 2, Appli
37	69.5	6.9	210	9	US-09-925-301-1185	Sequence 1185, Ap
38	69.5	6.9	533	10	US-09-909-320-332	Sequence 332, App
39	69.5	6.9	533	10	US-09-909-088B-332	Sequence 332, App
40	69.5	6.9	533	10	US-09-905-291A-332	Sequence 332, App
41	69.5	6.9	533	10	US-09-902-853-332	Sequence 332, App
42	69.5	6.9	533	10	US-09-907-824-332	Sequence 332, App
43	69.5	6.9	533	10	US-09-907-841-332	Sequence 332, App
44	69.5	6.9	533	11	US-09-904-011-332	Sequence 332, App
45	69.5	6.9	533	11	US-09-906-742-332	Sequence 332, App

ALIGNMENTS

RESULT 1  
US-10-025-514-6  
; Sequence 6, Application US/10025514  
; Publication No. US20030073217A1  
GENERAL INFORMATION:  
; APPLICANT: Philip J. BARR  
; APPLICANT: Helen GIBSON  
; TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
; TITLE OF INVENTION: THEIR USE IN TREATMENT OF DISEASE  
; FILE REFERENCE: 368292000200  
; CURRENT APPLICATION NUMBER: US/10/025,514  
; CURRENT FILING DATE: 2002-04-03  
; PRIOR APPLICATION NUMBER: U.S. 60/256,699  
; PRIOR FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: U.S. 60/331,966  
; PRIOR FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 184  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-025-514-6  
Query Match 100.0%; Score 1009; DB 15; Length 184;  
Best Local Similarity 100.0%; Pred. No. 1.1e-103;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CTCVPHPHQTAFCNSDLVIRAKVGTPEVNOITLYQREIKMTMYKGFQALGPAADIRF 60  
DB 1 CTCVPHPHQTAFCNSDLVIRAKVGTPEVNOITLYQREIKMTMYKGFQALGPAADIRF 60  
QY VYTPAMSVGCVGFRRSHNRSEEPILAKLDDGLHITTCSSVAPWNSLSLAORGFTKTY 120  
DB 61 VYTPAMSVGCVGFRRSHNRSEEPILAKLDDGLHITTCSSVAPWNSLSLAORGFTKTY 120  
QY 121 TVGCECTVFPCLSLIPCKLQSGTICLWTDLLQSSSEKGFOSRHILACLPREPGICTWQSLR 180

Db 121 TVGCECTVFPCLSTIPCKLQSGTHCLMTDQLQSGSEKGFQSRHLACLPREPGLCTWQSLR 180  
QY 181 SOIA 184  
Db 181 SOIA 184

## RESULT 2

US-10-116-064-5  
Sequence 5, Application US/10116064  
Publication No. US20020115187A1  
GENERAL INFORMATION:

APPLICANT: GREENE, JOHN M

ROSEN, CRAIG

TITLE OF INVENTION: HUMAN TISSUE INHIBITOR OF

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESSEE: HUMAN GENOME SCIENCES, INC.

STREET: 9410 KEY WEST AVE

CITY: ROCKVILLE

STATE: MD

COUNTRY: USA

ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/116,064

FILING DATE: 05-Apr-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/262,087

FILING DATE: 04-MAR-1999

APPLICATION NUMBER: PCT/US94/14498

FILING DATE: 13-FEB-1994

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 207 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 5:

US-10-116-064-5

Query Match 100.0%; Score 1009; DB 14; Length 207;

Best Local Similarity 100.0%; Pred. No. 1.2e-103;

Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPPHPOTAFNCNSDLVIRAKFVGTPEVNOTTLVQRYEIKMTKMYKGFQALGDADIRF 60  
Db 24 CTCVPPHPOTAFNCNSDLVIRAKFVGTPEVNOTTLVQRYEIKMTKMYKGFQALGDADIRF 83  
QY 61 VTPPMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFVAPNWSLSLAQRGFTKTY 120  
Db 84 VTPPMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFVAPNWSLSLAQRGFTKTY 143  
QY 121 TVGCECTVFPCLSTIPCKLQSGTHCLMTDQLQSGSEKGFQSRHLACLPREPGLCTWQSLR 180  
Db 144 TVGCECTVFPCLSTIPCKLQSGTHCLMTDQLQSGSEKGFQSRHLACLPREPGLCTWQSLR 203  
QY 181 SOIA 184  
Db 204 SOIA 207

## RESULT 3

US-10-025-514-10  
Sequence 10, Application US/10025514

Publication No. US20030073217A1  
GENERAL INFORMATION:  
APPLICANT: Philip J. BARR  
APPLICANT: Helen GIBSON  
APPLICANT: Philip PEMBERTON  
TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
FILE REFERENCE: 368292000200  
CURRENT APPLICATION NUMBER: US/10/025,514  
CURRENT FILING DATE: 2002-04-03  
PRIOR APPLICATION NUMBER: U.S. 60/256,699  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: U.S. 60/331,966  
PRIOR FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 33  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 10  
LENGTH: 580  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-025-514-10

Query Match 100.0%; Score 1009; DB 15; Length 580;

Best Local Similarity 100.0%; Pred. No. 4.7e-103;

Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPPHPOTAFNCNSDLVIRAKFVGTPEVNOTTLVQRYEIKMTKMYKGFQALGDADIRF 60  
Db 2 CTCVPPHPOTAFNCNSDLVIRAKFVGTPEVNOTTLVQRYEIKMTKMYKGFQALGDADIRF 61  
QY 61 VTPPMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFVAPNWSLSLAQRGFTKTY 120  
Db 62 VTPPMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFVAPNWSLSLAQRGFTKTY 121  
QY 121 TVGCECTVFPCLSTIPCKLQSGTHCLMTDQLQSGSEKGFQSRHLACLPREPGLCTWQSLR 180  
Db 122 TVGCECTVFPCLSTIPCKLQSGTHCLMTDQLQSGSEKGFQSRHLACLPREPGLCTWQSLR 181  
QY 181 SOIA 184  
Db 182 SOIA 185

## RESULT 4

US-10-025-514-18

Sequence 18, Application US/10025514

Publication No. US20030073217A1

GENERAL INFORMATION:

APPLICANT: Philip J. BARR

APPLICANT: Helen GIBSON

APPLICANT: Philip PEMBERTON

TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND

FILE REFERENCE: 368292000200

CURRENT APPLICATION NUMBER: US/10/025,514

CURRENT FILING DATE: 2002-04-03

PRIOR APPLICATION NUMBER: U.S. 60/256,699

PRIOR FILING DATE: 2000-12-18

PRIOR APPLICATION NUMBER: U.S. 60/331,966

PRIOR FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 33

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 18

LENGTH: 580

TYPE: PRT

ORGANISM: Homo sapiens

US-10-025-514-18

Query Match 100.0%; Score 1009; DB 15; Length 580;

Best Local Similarity 100.0%; Pred. No. 4.7e-103;

Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPPHPOTAFNCNSDLVIRAKFVGTPEVNOTTLVQRYEIKMTKMYKGFQALGDADIRF 60

Db 397 CTCVPHPQTAFNCSDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 456  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTTKY 120  
Db 457 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTTKY 516  
QY 121 TVGCECTVFPCLSIIPCKLOSGTHCLMTDQLQSGSEKGFQSHRLACLPREPGLCTWQSLR 180  
Db 517 TVGCECTVFPCLSIIPCKLOSGTHCLMTDQLQSGSEKGFQSHRLACLPREPGLCTWQSLR 576  
QY 181 SQIA 184  
Db 577 SQIA 580

RESULT 5  
US-09-731-872-291  
Sequence 291, Application US/09731872  
Patent No. US20020102604A1  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, Jean Baptiste  
APPLICANT: Bouquelere, Lydie  
TITLE OF INVENTION: FULL-LENGTH HUMAN CDNA ENCODING POTENTIALLY SECRETED PROTEINS  
FILE REFERENCE: 78 US3,REG  
CURRENT APPLICATION NUMBER: US/09/731,872  
CURRENT FILING DATE: 2000-12-07  
PRIOR APPLICATION NUMBER: US 60/169,629  
PRIOR FILING DATE: 1999-12-08  
PRIOR APPLICATION NUMBER: US 60/187,470  
PRIOR FILING DATE: 2000-03-06  
NUMBER OF SEQ ID NOS: 482  
SOFTWARE: Patent.pm  
SEQ ID NO 291  
LENGTH: 207  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SIGNAL  
LOCATION: -23...-1  
US-09-731-872-291

Query Match 99.6%; Score 1005; DB 10; Length 207;  
Best Local Similarity 99.5%; Pred. No. 3.5e-103;  
Matches 183; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCVPHPQTAFNCSDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 60  
Db 24 CTCVPHPQTAFNCSDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 83  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTTKY 120  
Db 84 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTTKY 143  
QY 121 TVGCECTVFPCLSIIPCKLOSGTHCLMTDQLQSGSEKGFQSHRLACLPREPGLCTWQSLR 180  
Db 144 TVGCECTVFPCLSIIPCKLOSGTHCLMTDQLQSGSEKGFQSHRLACLPREPGLCTWQSLR 203  
QY 181 SQIA 184  
Db 204 SQIA 207

RESULT 6  
US-10-025-514-24  
Sequence 24, Application US/10025514  
Publication No. US20030073217A1  
GENERAL INFORMATION:  
APPLICANT: Philip J. BARR  
APPLICANT: Helen GIBSON  
APPLICANT: Philip PEMBERTON  
TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND

FILE OF INVENTION: THEIR USE IN TREATMENT OF DISEASE  
FILE REFERENCE: 368292000200  
CURRENT APPLICATION NUMBER: US/10/025,514  
CURRENT FILING DATE: 2002-04-03  
PRIOR APPLICATION NUMBER: U.S. 60/256,699  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: U.S. 60/331,966  
PRIOR FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 33  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 24  
LENGTH: 128  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-025-514-24

Query Match 68.5%; Score 691; DB 15; Length 128;  
Best Local Similarity 100.0%; Pred. No. 1e-68;  
Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPQTAFNCSDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 60  
Db 2 CTCVPHPQTAFNCSDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 61  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTTKY 120  
Db 62 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTTKY 121  
QY 121 TVGCEC 127  
Db 122 TVGCEC 128

RESULT 7  
US-10-025-514-22  
Sequence 22, Application US/10025514  
Publication No. US20030073217A1  
GENERAL INFORMATION:  
APPLICANT: Philip J. BARR  
APPLICANT: Helen GIBSON  
APPLICANT: Philip PEMBERTON  
TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
FILE REFERENCE: 368292000200  
CURRENT APPLICATION NUMBER: US/10/025,514  
CURRENT FILING DATE: 2002-04-03  
PRIOR APPLICATION NUMBER: U.S. 60/256,699  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: U.S. 60/331,966  
PRIOR FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 33  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 22  
LENGTH: 127  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-025-514-22

Query Match 67.6%; Score 682; DB 15; Length 127;  
Best Local Similarity 100.0%; Pred. No. 1e-67;  
Matches 126; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPQTAFNCSDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 60  
Db 2 CTCVPHPQTAFNCSDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRF 61  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTTKY 120  
Db 62 VYTPAMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWNSLSLAQRGFTTKY 121  
QY 121 TVGCEE 126  
Db 122 TVGCEE 127

RESULT 8  
US-10-025-514-14

Sequence 14, Application US/10025514  
Publication No. US20030073217A1  
GENERAL INFORMATION:  
APPLICANT: Philip J. BARR  
APPLICANT: Helen GIBSON  
APPLICANT: Philip PEMBERTON  
TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
FILE REFERENCE: 36829200200  
CURRENT APPLICATION NUMBER: US/10/025,514  
CURRENT FILING DATE: 2002-04-03  
PRIOR APPLICATION NUMBER: U.S. 60/256,699  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: U.S. 60/331,966  
PRIOR FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 33  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 14  
LENGTH: 522  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-025-514-14

Query Match 67.6%; Score 682; DB 15; Length 522;  
Best Local Similarity 100.0%; Pred. No. 6,2e-67;  
Matches 126; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPOTAFQNSDLVIRAKFVGTPEVNTTLVQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 2 CTCVPHPOTAFQNSDLVIRAKFVGTPEVNTTLVQRYEIKMTKMYKGFQALGDAADIRF 61  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSPVAPNNSLSLAQRGFTKTY 120  
DB 62 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSPVAPNNSLSLAQRGFTKTY 121  
QY 121 TVGCEE 126  
DB 122 TVGCEE 127

## RESULT 9

US-10-025-514-20  
Sequence 20, Application US/10025514  
Publication No. US20030073217A1  
GENERAL INFORMATION:  
APPLICANT: Philip J. BARR  
APPLICANT: Helen GIBSON  
APPLICANT: Philip PEMBERTON  
TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
FILE REFERENCE: 36829200200  
CURRENT APPLICATION NUMBER: US/10/025,514  
CURRENT FILING DATE: 2002-04-03  
PRIOR APPLICATION NUMBER: U.S. 60/256,699  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: U.S. 60/331,966  
PRIOR FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 33  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 20  
LENGTH: 522  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-025-514-20

Query Match 67.6%; Score 682; DB 15; Length 522;  
Best Local Similarity 100.0%; Pred. No. 6,2e-67;  
Matches 126; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPOTAFQNSDLVIRAKFVGTPEVNTTLVQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 397 CTCVPHPOTAFQNSDLVIRAKFVGTPEVNTTLVQRYEIKMTKMYKGFQALGDAADIRF 456  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSPVAPNNSLSLAQRGFTKTY 120  
DB 457 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSPVAPNNSLSLAQRGFTKTY 516  
QY 121 TVGCEE 126  
DB 517 TVGCEE 522

## RESULT 10

US-09-925-301-1594  
Sequence 1594, Application US/09925301  
Patent No. US20020052308A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA106  
CURRENT APPLICATION NUMBER: US/09/925,301  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05882  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 1694  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1594  
LENGTH: 183  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (80)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (107)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (122)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (136)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (151)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (152)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (160)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-925-301-1594

Query Match 66.2%; Score 667.5; DB 9; Length 183;  
Best Local Similarity 86.4%; Pred. No. 6,6e-66;  
Matches 127; Conservative 1; Mismatches 18; Indels 1; Gaps 1;

QY 1 CTCVPHPOTAFQNSDLVIRAKFVGTPEVNTTLVQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 37 CTCVPHPOTAFQNSDLVIRAKFVGTPEVNTTLVQRYEIKMTKMYKGFQALGDAADIRF 96  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSPVAPNNSLSLAQRGFTKTY 120  
DB 97 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSPVAPNNSLSLAQRGFTKTY 156  
QY 121 TVGCEE--TVPCSLIPCKLQSGTHCL 146  
DB 157 TVGXEEMKCFVYPSPANCRVGHCL 183



LOCATION: (25)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (31)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (33)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (47)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (56)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (60)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (62)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (79)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-925-301-1593

Query Match  
Best Local Similarity 35.5%; Score 358; DB 9; Length 85;  
Matches 68; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 107 SLSLAORRGFTYTVGCECTVFPCLSPCKLQSGTHCLMTDQLQSGEKFGOSRHILAC 166

Db 8 SLSLAORRGFTYTVGCECTVFPCLSPCKLQSGTHCLMTDQLQSGEKFGOSRHILAC 67

Qy 167 LRPBGLCTWOSLRSGIA 184  
Db 68 LRPBGLCTWOSLRSGIA 85

RESULT 14

US-09-901-904-2  
Sequence 2, Application US/09901904  
Patent No. US20020055158A1  
GENERAL INFORMATION:  
APPLICANT: Greene et al.  
TITLE OF INVENTION: Human Tissue Inhibitor of Metalloproteinase-4  
FILE REFERENCE: PFI48P2  
CURRENT APPLICATION NUMBER: US/09/901,904  
CURRENT FILING DATE: 2001-07-11  
PRIOR APPLICATION NUMBER: US 60/220,829  
PRIOR FILING DATE: 2000-07-26  
PRIOR APPLICATION NUMBER: US 60/217,419  
PRIOR FILING DATE: 2000-07-11  
PRIOR APPLICATION NUMBER: US 09/387,525  
PRIOR FILING DATE: 1999-09-01  
PRIOR APPLICATION NUMBER: US 08/463,261  
PRIOR FILING DATE: 1995-06-01  
PRIOR APPLICATION NUMBER: PCT/US94/14498  
PRIOR FILING DATE: 1994-12-13  
NUMBER OF SEQ ID NOS: 8  
SOFTWARE: Patent version 3.0  
SEQ ID NO 2  
LENGTH: 224  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-901-904-2

Query Match  
Best Local Similarity 34.8%; Score 351; DB 9; Length 224;  
Matches 67; Conservative 33; Mismatches 71; Indels 12; Gaps 5;

Qy 1 CTCVPHPQTAFQNSDLYIRAKF-----VGTPEVNOITLYQRYEIKMTKTKYKFGQALGD 54  
Db 30 CSCAPAHPOOHICHSAIVIRAKISSEKVPASADPADTEKMLRYEIKQIKMFKGFEKV-- 87

Qy 55 AADIRFVYTPMSEVCGYFHRSHNRSEFLIAGK-LQDGLHITTCSPVAPNNSLSLAOR 113  
Db 88-KDQVYITTPDSSICG-VKLEANSQKQYLITGVLSGKXFIHNCNTIEFREDLSLVQR 145  
Qy 114 RGFYTVGCECTVFPCLSPCKLQSGTHCLMTDQLQSGEKFGOSRHILACLPREPGL 173  
Db 146 ESLNHHYLNLC-GCQITTCYTVPCITISAPNECLMTDMLERKLYGYQAHYVCMKHVDGT 204  
Qy 174 CTW 176  
Db 205 CSW 207

RESULT 15  
US-09-947-715-2  
Sequence 2, Application US/09947715  
Patent No. US20020103122A1  
GENERAL INFORMATION:  
APPLICANT: Human Genome Sciences, Inc.  
TITLE OF INVENTION: Methods of Treatment and Prevention of Restenosis  
FILE REFERENCE: PFI17P1  
CURRENT APPLICATION NUMBER: US/09/947,715  
CURRENT FILING DATE: 2001-09-07  
PRIOR APPLICATION NUMBER: PCT/US00/06279  
PRIOR FILING DATE: 2000-03-13  
PRIOR APPLICATION NUMBER: 09/266,424  
PRIOR FILING DATE: 1999-03-11  
NUMBER OF SEQ ID NOS: 3  
SOFTWARE: Patent Ver. 2.1  
SEQ ID NO 2  
LENGTH: 224  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-947-715-2

Query Match  
Best Local Similarity 34.8%; Score 351; DB 10; Length 224;  
Matches 67; Conservative 33; Mismatches 71; Indels 12; Gaps 5;

Qy 1 CTCVPHPQTAFQNSDLYIRAKF-----VGTPEVNOITLYQRYEIKMTKTKYKFGQALGD 54  
Db 30 CSCAPAHPOOHICHSAIVIRAKISSEKVPASADPADTEKMLRYEIKQIKMFKGFEKV-- 87  
Qy 55 AADIRFVYTPMSEVCGYFHRSHNRSEFLIAGK-LQDGLHITTCSPVAPNNSLSLAOR 113  
Db 88-KDQVYITTPDSSICG-VKLEANSQKQYLITGVLSGKXFIHNCNTIEFREDLSLVQR 145  
Qy 114 RGFYTVGCECTVFPCLSPCKLQSGTHCLMTDQLQSGEKFGOSRHILACLPREPGL 173  
Db 146 ESLNHHYLNLC-GCQITTCYTVPCITISAPNECLMTDMLERKLYGYQAHYVCMKHVDGT 204  
Qy 174 CTW 176  
Db 205 CSW 207

Search completed: July 25, 2003, 13:08:11  
Job time : 51.4171 secs

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OM protein - protein search, using sw model

Run on: July 25, 2003, 12:38:05 ; Search time 14.2343 seconds

(without alignments)  
315.081 Million cell updates/sec

Title: US-09-987-357-2

Perfect score: 579  
Sequence: 1 CTCVPPHQTAFCNSDLVIR.....GKLQDGLHITTCSPVAPWN 106

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Issued\_Patents\_AA:\*  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PTUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	579	100.0	106	4	US-09-452-817-2 Sequence 2, Appl1
2	579	100.0	184	4	US-09-452-817-1 Sequence 1, Appl1
3	579	100.0	207	1	US-08-588-163-5 Sequence 5, Appl1
4	579	100.0	207	2	US-09-111-070-5 Sequence 5, Appl1
5	579	100.0	207	4	US-08-849-764C-5 Sequence 5, Appl1
6	579	100.0	207	4	US-09-262-087-5 Sequence 5, Appl1
7	579	100.0	207	4	US-08-463-261B-11 Sequence 11, Appl1
8	579	100.0	207	4	US-09-540-530-1 Sequence 11, Appl1
9	579	100.0	207	4	US-08-134-231C-23 Sequence 23, Appl1
10	508	87.7	207	4	US-08-134-231C-27 Sequence 27, Appl1
11	507	87.6	205	4	US-08-134-231C-24 Sequence 24, Appl1
12	458	79.1	205	4	US-08-134-231C-25 Sequence 25, Appl1
13	234	40.4	220	1	US-08-588-163-3 Sequence 3, Appl1
14	234	40.4	220	2	US-09-111-070-3 Sequence 3, Appl1
15	234	40.4	220	4	US-09-540-530-2 Sequence 3, Appl1
16	234	40.4	220	4	US-08-134-231C-28 Sequence 28, Appl1
17	233	40.2	220	4	US-08-134-231C-26 Sequence 26, Appl1
18	227	39.2	220	4	US-08-134-231C-26 Sequence 26, Appl1
19	226	39.0	218	4	US-08-849-764C-3 Sequence 3, Appl1
20	226	39.0	218	4	US-09-262-087-3 Sequence 3, Appl1
21	226	39.0	218	4	US-08-463-261B-9 Sequence 9, Appl1
22	218	37.7	212	4	US-08-134-231C-29 Sequence 29, Appl1
23	215	37.1	198	4	US-08-134-231C-15 Sequence 15, Appl1
24	215	37.1	211	1	US-08-588-163-4 Sequence 4, Appl1
25	215	37.1	211	2	US-09-111-070-4 Sequence 4, Appl1
26	215	37.1	211	4	US-09-540-530-3 Sequence 3, Appl1
27	215	37.1	211	4	US-08-134-231C-13 Sequence 13, Appl1

28	209.5	36.2	210	4	US-08-849-764C-4	Sequence 4, Appl1
29	209.5	36.2	210	4	US-09-262-087-4	Sequence 4, Appl1
30	209.5	36.2	210	4	US-08-463-261B-10	Sequence 10, Appl1
31	201.5	34.8	224	1	US-08-588-163-2	Sequence 2, Appl1
32	201.5	34.8	224	2	US-09-111-070-2	Sequence 2, Appl1
33	201.5	34.8	224	4	US-08-849-764C-2	Sequence 2, Appl1
34	201.5	34.8	224	4	US-09-262-087-2	Sequence 2, Appl1
35	201.5	34.8	224	4	US-08-463-261B-2	Sequence 2, Appl1
36	201.5	34.8	224	4	US-09-540-530-4	Sequence 4, Appl1
37	201.5	34.8	224	4	US-09-901-904-2	Sequence 2, Appl1
38	201.5	34.8	224	5	PCT-US94-14498A-2	Sequence 2, Appl1
39	124	21.4	25	2	US-08-474-656A-2	Sequence 2, Appl1
40	116.5	20.1	164	4	US-08-134-231C-17	Sequence 17, Appl1
41	105	18.1	22	2	US-08-474-656A-5	Sequence 5, Appl1
42	105	18.1	22	2	US-08-474-656A-6	Sequence 6, Appl1
43	105	18.1	25	2	US-08-474-656A-4	Sequence 4, Appl1
44	77	13.3	16	2	US-08-480-134	Sequence 134, App
45	77	13.3	16	2	US-08-488-379-134	Sequence 134, App

#### ALIGNMENTS

```
RESULT 1
US-09-452-817-2
; Sequence 2, Application US/09452817
; Patent No. 6342374
; GENERAL INFORMATION:
; APPLICANT: Carmichael, David F
; APPLICANT: Anderson, David C
; APPLICANT: Stricklin, George P
; APPLICANT: Welgus, Howard G
; TITLE OF INVENTION: Human Collagenase Inhibitor, Recombinant Vector System
; TITLE OF INVENTION: For Using Same And Recombinant-DNA Method For
; FILE REFERENCE: Serial No. 6342374 09/452,817
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 08/474,553
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/050,739
; PRIOR FILING DATE: 1993-04-21
; PRIOR APPLICATION NUMBER: 07/853,018
; PRIOR FILING DATE: 1992-03-18
; PRIOR APPLICATION NUMBER: 07/517,475
; PRIOR FILING DATE: 1990-05-01
; PRIOR APPLICATION NUMBER: 07/320,923
; PRIOR FILING DATE: 1989-03-08
; PRIOR APPLICATION NUMBER: 06/784,319
; PRIOR FILING DATE: 1985-10-04
; PRIOR APPLICATION NUMBER: 06/699,181
; PRIOR FILING DATE: 1985-02-05
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 2
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-452-817-2

Query Match      100.0%; Score 579; DB 4; Length 106;
Best local Similarity 100.0%; Pred. No. 4.4e-71;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CTCVPPHQTAFCNSDLVIRAKFGTPEVNQTTLYORREIMTKYKGFALGDAADIRF 60
DB      1 CTCVPPHQTAFCNSDLVIRAKFGTPEVNQTTLYORREIMTKYKGFALGDAADIRF 60
QY      61 VYTPAMESVCYGFHRSHRSEEFILAGKLQDGLHITTCSPVAPAWN 106
DB      61 VYTPAMESVCYGFHRSHRSEEFILAGKLQDGLHITTCSPVAPAWN 106
```

RESULT 2  
US-09-452-817-1  
Sequence 1, Application US/09452817  
Patent No. 6342374  
GENERAL INFORMATION:  
APPLICANT: Carmichael, David F  
APPLICANT: Anderson, David C  
APPLICANT: Stricklin, George P  
APPLICANT: Welgus, Howard G  
TITLE OF INVENTION: Human Collagenase Inhibitor, Recombinant Vector System  
TITLE OF INVENTION: For Using Same And Recombinant-DNA Method For  
FILE REFERENCE: Serial No. 6342374 09/452, 817  
CURRENT APPLICATION NUMBER: US/09/452, 817  
PRIOR FILING DATE: 2001-06-22  
PRIOR APPLICATION NUMBER: 08/474,553  
PRIOR FILING DATE: 1995-06-07  
PRIOR APPLICATION NUMBER: 08/050,739  
PRIOR FILING DATE: 1993-04-21  
PRIOR APPLICATION NUMBER: 07/853,018  
PRIOR FILING DATE: 1992-03-18  
PRIOR APPLICATION NUMBER: 07/517,475  
PRIOR FILING DATE: 1990-05-01  
PRIOR APPLICATION NUMBER: 07/320,923  
PRIOR FILING DATE: 1989-03-08  
PRIOR APPLICATION NUMBER: 06/784,319  
PRIOR FILING DATE: 1985-10-04  
PRIOR APPLICATION NUMBER: 06/599,181  
PRIOR FILING DATE: 1985-02-05  
NUMBER OF SEQ ID NOS: 20  
SOFTWARE: Patentln Ver. 2.0  
SEQ ID NO 1  
LENGTH: 184  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-452-817-1

Query Match 100.0%; Score 579; DB 4; Length 184;  
Best Local Similarity 100.0%; Pred. No. 9.7e-71;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPHQTAFNCNSDLVIRAKVGTPEVNQTTLYQRYEIKMTKTKYKGFQALGDADIRF 60  
DB 1 CTCVPHPHQTAFNCNSDLVIRAKVGTPEVNQTTLYQRYEIKMTKTKYKGFQALGDADIRF 60

QY 61 VTPMSEVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWN 106  
DB 61 VTPMSEVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWN 106

RESULT 3  
US-08-588-163-5  
Sequence 5, Application US/08588163  
Patent No. 5643752  
GENERAL INFORMATION:  
APPLICANT: Hawkins, Phillip R.  
APPLICANT: Murry, Lynn E.  
TITLE OF INVENTION: A NOVEL TISSUE INHIBITOR OF  
TITLE OF INVENTION: METALLOPROTEINASES  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/588,163  
FILING DATE: Herewith  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Luther, Barbara J.  
REGISTRATION NUMBER: 33,954  
REFERENCE/DOCKET NUMBER: PF-0053  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-852-0195  
TELEX:  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 207 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: METALLOPROTEINASES  
CLONE: TIMP-1  
US-08-588-163-5

Query Match 100.0%; Score 579; DB 1; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.1e-70;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPHQTAFNCNSDLVIRAKVGTPEVNQTTLYQRYEIKMTKTKYKGFQALGDADIRF 60  
DB 24 CTCVPHPHQTAFNCNSDLVIRAKVGTPEVNQTTLYQRYEIKMTKTKYKGFQALGDADIRF 83

QY 61 VTPMSEVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWN 106  
DB 84 VTPMSEVCGYFHRSHNRSEEFLLAGKLODGLHITTCSFVAPWN 129

RESULT 4  
US-09-111-070-5  
Sequence 5, Application US/09111070  
Patent No. 5914392  
GENERAL INFORMATION:  
APPLICANT: Hawkins, Phillip R.  
APPLICANT: Murry, Lynn E.  
TITLE OF INVENTION: A NOVEL TISSUE INHIBITOR OF  
TITLE OF INVENTION: METALLOPROTEINASES  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/111,070  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/588,163  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Luther, Barbara J.  
REGISTRATION NUMBER: 33,954  
REFERENCE/DOCKET NUMBER: PF-0053  
TELECOMMUNICATION INFORMATION:



TELEPHONE: 415-855-0555  
TELEFAX: 415-852-0195  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 207 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: METALLOPROTEINASES  
CLONE: TIMP-1  
US-09-111-070-5

Query Match 100.0%; Score 579; DB 2; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.1e-70;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPTAFCSNDVIRAKFVGTPENVOTLLYQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 24 CTCVPHPTAFCSNDVIRAKFVGTPENVOTLLYQRYEIKMTKMYKGFQALGDAADIRF 83  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 106  
DB 84 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 129

## RESULT 5

US-08-849-764C-5  
Sequence 5, Application US/08849764C  
Patent No. 6300310  
GENERAL INFORMATION:

APPLICANT: GREENE, JOHN M  
ROSEN, CRAIG  
TITLE OF INVENTION: HUMAN TISSUE INHIBITOR OF  
METALLOPROTEINASE-4  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: HUMAN GENOME SCIENCES, INC.  
STREET: 9410 KEY WEST AVENUE  
CITY: ROCKVILLE  
STATE: MD  
COUNTRY: USA  
ZIP: 20850

## COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/849,764C  
FILING DATE: 19-Sep-1997  
CLASSIFICATION: <Unknown>

## ATTORNEY/AGENT INFORMATION:

NAME: MICHELE M. WALES  
REGISTRATION NUMBER: 43,975  
REFERENCE/DOCKET NUMBER: PFI48US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 301-309-8504  
TELEFAX: 301-309-8439  
INFORMATION FOR SEQ ID NO: 5:

## SEQUENCE CHARACTERISTICS:

LENGTH: 207 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 5:

US-08-849-764C-5

Query Match 100.0%; Score 579; DB 4; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.1e-70;

Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPTAFCSNDVIRAKFVGTPENVOTLLYQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 24 CTCVPHPTAFCSNDVIRAKFVGTPENVOTLLYQRYEIKMTKMYKGFQALGDAADIRF 83  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 106  
DB 84 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 129

## RESULT 6

US-09-262-087-5  
Sequence 5, Application US/09262087  
Patent No. 6391853  
GENERAL INFORMATION:

APPLICANT: GREENE, JOHN M  
ROSEN, CRAIG  
TITLE OF INVENTION: HUMAN TISSUE INHIBITOR OF  
METALLOPROTEINASE-4  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: HUMAN GENOME SCIENCES, INC.  
STREET: 9410 KEY WEST AVE  
CITY: ROCKVILLE  
STATE: MD  
COUNTRY: USA  
ZIP: 20850

## COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/262,087  
FILING DATE: 04-MAR-1999  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/463,261  
FILING DATE: 05-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/14498  
FILING DATE: 13-FEB-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: A. ANDERS BROOKES  
REGISTRATION NUMBER: 36,373  
REFERENCE/DOCKET NUMBER: PFI48PID1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 301-309-8504  
TELEFAX: 301-309-8439  
INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:  
LENGTH: 207 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-09-262-087-5

Query Match 100.0%; Score 579; DB 4; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.1e-70;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPTAFCSNDVIRAKFVGTPENVOTLLYQRYEIKMTKMYKGFQALGDAADIRF 60  
DB 24 CTCVPHPTAFCSNDVIRAKFVGTPENVOTLLYQRYEIKMTKMYKGFQALGDAADIRF 83  
QY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 106  
DB 84 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 129

## RESULT 7

```

US-08-463-261B-11
; Sequence 11, Application US/08463261B
; Patent No. 6448042
; GENERAL INFORMATION:
; APPLICANT: John M. Greene and Craig A. Rosen
; TITLE OF INVENTION: Human Tissue Inhibitor of Metalloproteinase-4
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
; STREET: 9410 KEY WEST AVENUE
; CITY: ROCKVILLE
; STATE: MARYLAND
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WORD PERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/463,261B
; FILING DATE: 05-JUN-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/14498
; FILING DATE: 13-DEC-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: KENLEY K. HOOVER
; REGISTRATION NUMBER: 40,302
; REFERENCE/DOCKET NUMBER: PF148P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-610-5790
; TELEFAX: 301-610-8439
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 207 AMINO ACIDS
; TYPE: AMINO ACID
; STRADEDNESS:
; TOPOLOGY: LINEAR
; MOLECULE TYPE: PROTEIN
; US-08-463-261B-11

Query Match 100.0%; Score 579; DB 4; Length 207;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY 1 CTCVPPHQTFACNSDLVIRAKFVGTPEVNOQTLLYQRYEIKTKMYKGFQALGDAADIRF 60
Db 24 CTCVPPHQTFACNSDLVIRAKFVGTPEVNOQTLLYQRYEIKTKMYKGFQALGDAADIRF 83
QY 61 VYTPAMESVCGYFHRSHNRSEFFLAGLQDGLHITTCSPFAPNN 106
Db 84 VYTPAMESVCGYFHRSHNRSEFFLAGLQDGLHITTCSPFAPNN 129

RESULT 8
US-09-540-530-1
; Sequence 1, Application US/09540530
; Patent No. 6534635
; GENERAL INFORMATION:
; APPLICANT: Miyazaki, Kaoru
; APPLICANT: Higashi, Shouchi
; TITLE OF INVENTION: MODIFIED TMP
; FILE REFERENCE: 159-57
; CURRENT APPLICATION NUMBER: US/09/540,530
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: JP 95142/1999
; PRIOR FILING DATE: 1999-04-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 207
; TYPE: PRT

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: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: modified TIMP
US-09-540-530-1
Query Match
Best Local Similarity 100.0%; Score 579; DB 4; Length 207;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0
OY 1 CTCVPPHPQIAFCNSDLVIRAKFVGTEPVNQTLLYORYEIMTKYKGFQALGDAADIRF 60
Db 24 CTCVPPHPQIAFCNSDLVIRAKFVGTEPVNQTLLYORYEIMTKYKGFQALGDAADIRF 83
OY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGLQDGLLHITTCSPVAPWN 106
Db 84 VYTPAMESVCGYFHRSHNRSEEFLLAGLQDGLLHITTCSPVAPWN 129
RESULT 9
US-08-134-231C-23
; Sequence 23, Application US/08134231C
; Patent No. 6562596
; GENERAL INFORMATION:
APPLICANT: Silbiger, Scott M.
Koski, Raymond A.
TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type
Three (TIMP-3) Composition and Methods
NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finegan, Henderson, Farabow, Garrett & Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: District of Columbia
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08-134,231C
FILING DATE: 06-Oct-1993
CLASSIFICATION: <Unknown>
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 207 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-08-134-231C-23
Query Match
Best Local Similarity 100.0%; Score 579; DB 4; Length 207;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0
OY 1 CTCVPPHPQIAFCNSDLVIRAKFVGTEPVNQTLLYORYEIMTKYKGFQALGDAADIRF 60
Db 24 CTCVPPHPQIAFCNSDLVIRAKFVGTEPVNQTLLYORYEIMTKYKGFQALGDAADIRF 83
OY 61 VYTPAMESVCGYFHRSHNRSEEFLLAGLQDGLLHITTCSPVAPWN 106
Db 84 VYTPAMESVCGYFHRSHNRSEEFLLAGLQDGLLHITTCSPVAPWN 129
RESULT 10
US-08-134-231C-22
; Sequence 22, Application US/08134231C
; Patent No. 6562596
; GENERAL INFORMATION:
APPLICANT: Silbiger, Scott M.

```

```

;
; TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type
; Three (TIMP-3) Composition and Methods
;
; NUMBER OF SEQUENCES: 42
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: District of Columbia
; COUNTRY: USA
;
; ZIP: 20005
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/134,231C
; FILING DATE: 06-Oct-1993
; CLASSIFICATION: <Unknown>
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 207 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 22:
US-08-134-231C-22

Query Match      87.7% Score 508; DB 4; Length 207;
Best Local Similarity 86.8%; Pred. No. 5,3e-61;
Matches 92; Conservative 6; Mismatches 8; Indels 0; Gaps 0;

QY 1 CTCVPHPTQAFNCSDLVIRAKFVGTPEVNOITLYQRYEIKMTKTKYKGFQALGDAADIRF 60
    |||||
DB 24 CTCVPHPTQAFNCSDLVIRAKFVGTAEVNETALYQRYEIKMTKMFKGSALRDADIRF 83
    |||||

QY 61 VYTPMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSEFVAPWN 106
    |||||
DB 84 VYTPMESVCGYFHRSHNRSEEFLLAGKLSNGHLHITTCSEFVAPWN 129
    |||||

RESULT 11
US-08-134-231C-24
; Sequence 24, Application US/08134231C
; Patent No. 6562596
; GENERAL INFORMATION:
; APPLICANT: Silbiger, Scott M.
; Koshi, Raymond A.
; TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type
; Three (TIMP-3) Composition and Methods
;
; NUMBER OF SEQUENCES: 42
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: District of Columbia
; COUNTRY: USA
;
; ZIP: 20005
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/134,231C
; FILING DATE: 06-Oct-1993
; CLASSIFICATION: <Unknown>
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 206 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 24:
US-08-134-231C-24
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;
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 24:
US-08-134-231C-24

Query Match      87.6% Score 507; DB 4; Length 206;
Best Local Similarity 86.8%; Pred. No. 7,2e-61;
Matches 92; Conservative 5; Mismatches 9; Indels 0; Gaps 0;

QY 1 CTCVPHPTQAFNCSDLVIRAKFVGTPEVNOITLYQRYEIKMTKTKYKGFQALGDAADIRF 60
    |||||
DB 24 CTCVPHPTQAFNCSDLVIRAKFVGAPVNHITLYQRYEIKMTKMFKGFALGATDIRF 83
    |||||

QY 61 VYTPMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSEFVAPWN 106
    |||||
DB 84 VYTPMESVCGYSHKSNRSEEFLLAGKLSNGHLHITTCSEFVAPWN 129
    |||||

RESULT 12
US-08-134-231C-25
; Sequence 25, Application US/08134231C
; Patent No. 6562596
; GENERAL INFORMATION:
; APPLICANT: Silbiger, Scott M.
; Koshi, Raymond A.
; TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type
; Three (TIMP-3) Composition and Methods
;
; NUMBER OF SEQUENCES: 42
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: District of Columbia
; COUNTRY: USA
;
; ZIP: 20005
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/134,231C
; FILING DATE: 06-Oct-1993
; CLASSIFICATION: <Unknown>
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 205 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-08-134-231C-25

Query Match      79.1% Score 458; DB 4; Length 205;
Best Local Similarity 74.3%; Pred. No. 3,4e-54;
Matches 78; Conservative 17; Mismatches 10; Indels 0; Gaps 0;

QY 1 CTCVPHPTQAFNCSDLVIRAKFVGTPEVNOITLYQRYEIKMTKTKYKGFQALGDAADIRF 60
    |||||
DB 25 CSCAPPHPTQAFNCSDLVIRAKFVGTPEVNETALYQRYEIKMTKMFKGSALRDADIRF 84
    |||||

QY 61 VYTPMESVCGYFHRSHNRSEEFLLAGKLDGLHITTCSEFVAPWN 105
    |||||
DB 85 VYTPMESVCGYFHRSHNRSEEFLLAGKLSNGHLHITTCSEFVAPWN 129
    |||||

RESULT 13
US-08-163-3
; Sequence 3, Application US/08588163
; Patent No. 5643752
; GENERAL INFORMATION:
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ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/111,070
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/588,163
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J.
REGISTRATION NUMBER: 33,954
REFERENCE/DOCKET NUMBER: PF-0053
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-852-0195
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 220 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: METALLOPROTEINASES
CLONE: TIMP-2
US-09-111-070-3

Query Match          40.4%; Score 234; DB 2; Length 220;
Best Local Similarity 44.7%; Pred. No. 1,2e-23;
Matches 51; Conservative 15; Mismatches 34; Indels 14; Gaps 5;

QY      1 CTCVPPHPQAFNCSNDIVIRAKFVGPEVNQ--TTLVQ-----RYELKMTMYKGFQALG 53
       ||:|||||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
DB      27 CSCSPVPDQAFCNADVIIRAKAVSEKVDSGNDIYNPIKRIOYEIKQIMFR-----G 81
       ||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||

QY      54 DADIRFVVYPAESVCGYFHRSNRSEEFLLAGKLQ-DGLHITTCSPVAPWN 106
       ||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
DB      82 PEXDIERTYAPSAYCG-VSLDVGGKEKYLIAKGEDGKMHTLTDLFIVPD 134
       ||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||

RESULT 15
US-09-540-530-2
Sequence 2, Application US/09540530
Patent No. 6534635
GENERAL INFORMATION:
APPLICANT: Miyazaki, Kaoru
APPLICANT: Higashi, Shouichi
TITLE OF INVENTION: MODIFIED TIMP
FILE REFERENCE: 159-57
CURRENT APPLICATION NUMBER: US/09/540,530
CURRENT FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: JP 95142/1999
PRIOR FILING DATE: 1999-04-01
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 220
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: modified TIMP
US-09-540-530-2

Query Match          40.4%; Score 234; DB 4; Length 220;
Best Local Similarity 44.7%; Pred. No. 1,2e-23;
Matches 51; Conservative 15; Mismatches 34; Indels 14; Gaps 5;
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Qy      1 CTCVPHPHQTFACNSDLVIRAKFVGTPPEVNO-TTLXQ-----RYEIKTKTKMYKGPQALG 53
Db      27 CSCSPVHPQOAFECNADVIRAKAVSBEKVDGNDIYGNPIKRIQYEIKQIKMFK-----G 81
Qy      54 DAADIRFVYTPAMESVCCGFHRSNRSEBFLJAGKQ--DGLLHTTCSFVAPMN 106
Db      82 PEKDLFIYITAPSSAVCG-VSLDVGGKKEVYLJAGKABGDGKMHITLCPDPIVPMW 134

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Search completed: July 25, 2003, 12:54:57  
 Job time : 15.2343 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: July 25, 2003, 12:53:51 ; Search time 28.4686 Seconds  
(without alignments)  
442.191 Million cell updates/sec

Title: US-09-987-357-2

Perfect score: 579  
Sequence: 1 CTCVPPHPQTAFCNSDLVIR.....GKLQDLHLITTCSEFVAPWN 106

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep:\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep:\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep:\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep:\*  
6: /cgn2\_6/ptodata/2/pubpaa/PCTOS\_PUBCOMB.pep:\*  
7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep:\*  
8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*  
9: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*  
10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep:\*  
11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep:\*  
12: /cgn2\_6/ptodata/2/pubpaa/US09D\_NEW\_PUB.pep:\*  
13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:\*  
14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*  
15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep:\*  
16: /cgn2\_6/ptodata/2/pubpaa/US10D\_NEW\_PUB.pep:\*  
17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep:\*  
18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	579	100.0	127	US-10-025-514-22	Sequence 22, Appli
2	579	100.0	128	US-10-025-514-24	Sequence 24, Appli
3	579	100.0	184	US-10-025-514-6	Sequence 6, Appli
4	579	100.0	207	US-09-731-872-291	Sequence 291, App
5	579	100.0	207	US-10-116-064-5	Sequence 14, Appli
6	579	100.0	522	US-10-025-514-14	Sequence 14, Appli
7	579	100.0	522	US-10-025-514-20	Sequence 20, Appli
8	579	100.0	580	US-10-025-514-10	Sequence 10, Appli
9	579	100.0	580	US-10-025-514-18	Sequence 18, Appli
10	558	96.4	183	US-09-925-301-1594	Sequence 1594, Ap
11	226	39.0	218	US-10-116-064-3	Sequence 3, Appli
12	209.5	36.2	210	US-10-116-064-4	Sequence 4, Appli
13	201.5	34.8	224	US-09-901-904-2	Sequence 2, Appli
14	201.5	34.8	224	US-09-947-715-2	Sequence 2, Appli
15	201.5	34.8	224	US-10-116-064-2	Sequence 2, Appli

16	116	20.0	137	15	US-10-106-698-6827	Sequence 6827, Ap
17	91	15.7	91	10	US-09-925-300-1806	Sequence 1806, Ap
18	88	15.2	20	9	US-09-055-671-7	Sequence 7, Appli
19	87	15.0	20	9	US-09-055-671-8	Sequence 8, Appli
20	82	14.2	19	8	US-08-803-954-2	Sequence 2, Appli
21	77	13.3	20	9	US-09-055-671-4	Sequence 4, Appli
22	66.5	11.5	490	9	US-09-815-242-12102	Sequence 12102, A
23	66	11.4	572	10	US-09-986-632-4	Sequence 4, Appli
24	64	11.1	292	9	US-09-815-242-10694	Sequence 10694, A
25	64	11.1	1035	15	US-10-205-823-373	Sequence 373, App
26	62	10.7	10	15	US-10-185-815-93	Sequence 93, Appli
27	61.5	10.6	562	15	US-10-128-714-3012	Sequence 3012, Ap
28	61.5	10.6	562	15	US-10-128-714-8012	Sequence 8012, Ap
29	61	10.5	444	15	US-10-153-668-308	Sequence 308, Appli
30	61	10.5	2549	11	US-09-950-634-3	Sequence 3, Appli
31	60.5	10.4	534	9	US-09-804-156-14	Sequence 14, Appli
32	60.5	10.4	534	10	US-09-946-633-6	Sequence 6, Appli
33	60.5	10.4	534	14	US-10-125-459-6	Sequence 6, Appli
34	60.5	10.4	534	14	US-10-067-761-14	Sequence 14, Appli
35	60	10.4	479	15	US-10-156-761-8327	Sequence 8327, Ap
36	60	10.4	1293	15	US-10-251-385-292	Sequence 292, App
37	59.5	10.3	993	9	US-09-894-998-50	Sequence 50, Appli
38	59.5	10.3	993	15	US-10-121-988-50	Sequence 50, Appli
39	59.5	10.3	1037	9	US-09-894-998-54	Sequence 54, Appli
40	59.5	10.3	1037	15	US-10-121-988-54	Sequence 54, Appli
41	59.5	10.3	1113	9	US-09-894-998-51	Sequence 51, Appli
42	59.5	10.3	1113	15	US-10-121-988-51	Sequence 51, Appli
43	59.5	10.3	1882	10	US-09-918-171A-13	Sequence 13, Appli
44	58	10.0	425	10	US-09-910-430-32	Sequence 32, Appli
45	58	10.0	425	15	US-10-165-605A-32	Sequence 32, Appli

## ALIGNMENTS

RESULT 1  
US-10-025-514-22  
; Sequence 22, Application US/10025514  
; Publication No. US20030073217A1  
; GENERAL INFORMATION:  
; APPLICANT: Philip J. BARR  
; APPLICANT: Helen GIBSON  
; APPLICANT: Philip PEMBERTON  
; TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
; TITLE OF INVENTION: THEIR USE IN TREATMENT OF DISEASE  
; FILE REFERENCE: 368292000200  
; CURRENT APPLICATION NUMBER: US/10/025, 514  
; CURRENT FILING DATE: 2002-04-03  
; PRIOR APPLICATION NUMBER: U.S. 60/256, 699  
; PRIOR FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: U.S. 60/331, 966  
; PRIOR FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 22  
; LENGTH: 127  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-025-514-22

Query Match 100.0%; Score 579; DB 15; Length 127;  
Best Local Similarity 100.0%; Pred. No. 5.7e-64;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CTCVPPHPQTAFCNSDLVIRAKFGVGTPEVNTTYYRREIMTYYKGFALGDAADIRF 60  
DB 2 CTCVPPHPQTAFCNSDLVIRAKFGVGTPEVNTTYYRREIMTYYKGFALGDAADIRF 61  
QY 61 VYTPAMEVCYGFRRSHRSEFLIAGLQDLGHLITTCSEFVAPWN 106  
DB 62 VYTPAMEVCYGFRRSHRSEFLIAGLQDLGHLITTCSEFVAPWN 107

RESULT 2  
US-10-025-514-24  
; Sequence 24, Application US/10025514  
; Publication No. US20030073217A1  
; GENERAL INFORMATION:  
; APPLICANT: Philip J. BARR  
; APPLICANT: Helen GIBSON  
; APPLICANT: Philip PEMBERTON  
; TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
; TITLE OF INVENTION: THEIR USE IN TREATMENT OF DISEASE  
; FILE REFERENCE: 368292000200  
; CURRENT APPLICATION NUMBER: US/10/025,514  
; CURRENT FILING DATE: 2002-04-03  
; PRIOR APPLICATION NUMBER: U.S. 60/256,699  
; PRIOR FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: U.S. 60/331,966  
; PRIOR FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 128  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-025-514-24

Query Match 100.0%; Score 579; DB 15; Length 128;  
Best Local Similarity 100.0%; Pred. No. 5.8e-64;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPHQTAFCNSDLVIRAKFVGTPPEVNOITLYORYEIKTKTKYKGFQALGDADIRF 60  
DB 2 CTCVPHPHQTAFCNSDLVIRAKFVGTPPEVNOITLYORYEIKTKTKYKGFQALGDADIRF 61  
QY 61 VYTPMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWN 106  
DB 62 VYTPMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWN 107

RESULT 3  
US-10-025-514-6  
; Sequence 6, Application US/10025514  
; Publication No. US20030073217A1  
; GENERAL INFORMATION:  
; APPLICANT: Philip J. BARR  
; APPLICANT: Helen GIBSON  
; APPLICANT: Philip PEMBERTON  
; TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
; TITLE OF INVENTION: THEIR USE IN TREATMENT OF DISEASE  
; FILE REFERENCE: 368292000200  
; CURRENT APPLICATION NUMBER: US/10/025,514  
; CURRENT FILING DATE: 2002-04-03  
; PRIOR APPLICATION NUMBER: U.S. 60/256,699  
; PRIOR FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: U.S. 60/331,966  
; PRIOR FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 184  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-025-514-6

Query Match 100.0%; Score 579; DB 15; Length 184;  
Best Local Similarity 100.0%; Pred. No. 9.2e-64;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPHQTAFCNSDLVIRAKFVGTPPEVNOITLYORYEIKTKTKYKGFQALGDADIRF 60  
DB 1 CTCVPHPHQTAFCNSDLVIRAKFVGTPPEVNOITLYORYEIKTKTKYKGFQALGDADIRF 60  
QY 61 VYTPMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWN 106

DB 61 VYTPMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWN 106  
RESULT 4  
US-09-731-872-291  
; Sequence 291, Application US/09731872  
; Patent No. US20020102604A1  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, Jean Baptiste  
; APPLICANT: Bouquelerec, Lydie  
; APPLICANT: Jobert, Severin  
; TITLE OF INVENTION: FULL-LENGTH HUMAN CDNAS ENCODING POTENTIALLY SECRETED PROTEINS  
; FILE REFERENCE: 78, US3, REG  
; CURRENT APPLICATION NUMBER: US/09/731,872  
; CURRENT FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 60/169,629  
; PRIOR FILING DATE: 1999-12-08  
; PRIOR APPLICATION NUMBER: US 60/187,470  
; PRIOR FILING DATE: 2000-03-06  
; NUMBER OF SEQ ID NOS: 482  
; SOFTWARE: Patent.pm  
; SEQ ID NO 291  
; LENGTH: 207  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -23...-1  
US-09-731-872-291

Query Match 100.0%; Score 579; DB 10; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.1e-63;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPHQTAFCNSDLVIRAKFVGTPPEVNOITLYORYEIKTKTKYKGFQALGDADIRF 60  
DB 24 CTCVPHPHQTAFCNSDLVIRAKFVGTPPEVNOITLYORYEIKTKTKYKGFQALGDADIRF 83  
QY 61 VYTPMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWN 106  
DB 84 VYTPMESVCGYFHRSHNRSEEFLLAGKLODGLHITTCSPFAPWN 129

RESULT 5  
US-10-116-064-5  
; Sequence 5, Application US/10116064  
; Publication No. US20020115187A1  
; GENERAL INFORMATION:  
; APPLICANT: GREENE, JOHN M  
; APPLICANT: ROSEN, CRAIG  
; TITLE OF INVENTION: HUMAN TISSUE INHIBITOR OF  
; TITLE OF INVENTION: METALLOPROTEINASE-4  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: HUMAN GENOME SCIENCES, INC.  
; STREET: 9410 KEY WEST AVE  
; CITY: ROCKVILLE  
; STATE: MD  
; COUNTRY: USA  
; ZIP: 20850  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/116,064  
; FILING DATE: 05-APR-2002  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/262,087  
; FILING DATE: 04-MAR-1999  
; APPLICATION NUMBER: PCT/US94/14498



;; FILING DATE: 13-FEB-1994  
;; INFORMATION FOR SEQ ID NO: 5:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 207 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
US-10-116-064-5

Query Match 100.0%; Score 579; DB 14; Length 207;  
Best Local Similarity 100.0%; Pred. No. 1.1e-63;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CTCVPHPQTAFNCNSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 60  
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Db 24 CTCVPHPQTAFNCNSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 83  
Oy 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 106  
|||  
Db 84 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 129

## RESULT 6

US-10-025-514-14  
; Sequence 14, Application US/10025514  
; Publication No. US20030073217A1

;; GENERAL INFORMATION:  
;; APPLICANT: Philip J. BARR  
;; APPLICANT: Helen GIBSON  
;; APPLICANT: Philip PEMBERTON  
;; TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
;; TITLE OF INVENTION: THEIR USE IN TREATMENT OF DISEASE  
;; FILE REFERENCE: 368292000200  
;; CURRENT FILING DATE: 2002-04-03  
;; PRIOR APPLICATION NUMBER: U.S. 60/256,699  
;; PRIOR FILING DATE: 2000-12-18  
;; PRIOR APPLICATION NUMBER: U.S. 60/331,966  
;; NUMBER OF SEQ ID NOS: 33  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 14  
;; LENGTH: 522  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-025-514-14

Query Match 100.0%; Score 579; DB 15; Length 522;  
Best Local Similarity 100.0%; Pred. No. 3.5e-63;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CTCVPHPQTAFNCNSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 60  
|||  
Db 2 CTCVPHPQTAFNCNSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 61  
Oy 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 106  
|||  
Db 62 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 107

## RESULT 7

US-10-025-514-20

;; Sequence 20, Application US/10025514  
;; Publication No. US20030073217A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Philip J. BARR  
;; APPLICANT: Helen GIBSON  
;; APPLICANT: Philip PEMBERTON  
;; TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
;; TITLE OF INVENTION: THEIR USE IN TREATMENT OF DISEASE  
;; FILE REFERENCE: 368292000200

;; CURRENT APPLICATION NUMBER: US/10/025,514  
;; CURRENT FILING DATE: 2002-04-03  
;; PRIOR APPLICATION NUMBER: U.S. 60/256,699  
;; PRIOR FILING DATE: 2000-12-18  
;; PRIOR APPLICATION NUMBER: U.S. 60/331,966  
;; PRIOR FILING DATE: 2001-11-20  
;; NUMBER OF SEQ ID NOS: 33  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 20  
;; LENGTH: 522  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-025-514-20

Query Match 100.0%; Score 579; DB 15; Length 522;  
Best Local Similarity 100.0%; Pred. No. 3.5e-63;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CTCVPHPQTAFNCNSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 60  
|||  
Db 397 CTCVPHPQTAFNCNSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 456  
Oy 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 106  
|||  
Db 457 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 502

## RESULT 8

US-10-025-514-10  
; Sequence 10, Application US/10025514  
; Publication No. US20030073217A1

;; GENERAL INFORMATION:  
;; APPLICANT: Philip J. BARR  
;; APPLICANT: Helen GIBSON  
;; APPLICANT: Philip PEMBERTON  
;; TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
;; TITLE OF INVENTION: THEIR USE IN TREATMENT OF DISEASE  
;; FILE REFERENCE: 368292000200  
;; CURRENT APPLICATION NUMBER: US/10/025,514  
;; CURRENT FILING DATE: 2002-04-03  
;; PRIOR APPLICATION NUMBER: U.S. 60/256,699  
;; PRIOR FILING DATE: 2000-12-18  
;; PRIOR APPLICATION NUMBER: U.S. 60/331,966  
;; PRIOR FILING DATE: 2001-11-20  
;; NUMBER OF SEQ ID NOS: 33  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 10  
;; LENGTH: 580  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-025-514-10

Query Match 100.0%; Score 579; DB 15; Length 580;  
Best Local Similarity 100.0%; Pred. No. 4e-63;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CTCVPHPQTAFNCNSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 60  
|||  
Db 2 CTCVPHPQTAFNCNSDLVIRAKFVGTPEVNOITLYQRYEIKMTKMYKGFQALGDAADIRF 61  
Oy 61 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 106  
|||  
Db 62 VYTPAMESVCGYFHRSHNRSEEFLLAGKLDGDLHITTCSFVAPWN 107

## RESULT 9

US-10-025-514-18  
; Sequence 18, Application US/10025514  
; Publication No. US20030073217A1

;; GENERAL INFORMATION:  
;; APPLICANT: Philip J. BARR  
;; APPLICANT: Helen GIBSON  
;; APPLICANT: Philip PEMBERTON

TITLE OF INVENTION: MULTIFUNCTIONAL PROTEASE INHIBITORS AND  
FILE REFERENCE: 368292000200  
CURRENT APPLICATION NUMBER: US/10/025,514  
CURRENT FILING DATE: 2002-04-03  
PRIOR APPLICATION NUMBER: U.S. 60/256,699  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: U.S. 60/331,966  
PRIOR FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 33  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 18  
LENGTH: 580  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-025-514-18

Query Match 100.0%; Score 579; DB 15; Length 580;  
Best Local Similarity 100.0%; Pred. No. 4e-63;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCVPHPTAFCSNGLVIRAKVGTPEVNOTTLVQRYEIKTKYKGFQALGDADIRF 60  
DB 397 CTCVPHPTAFCSNGLVIRAKVGTPEVNOTTLVQRYEIKTKYKGFQALGDADIRF 456  
QY 61 VTPPAMESVCGYFHRSHNRSEFLIAGKLDGLHITTCSPVAPWN 106  
DB 457 VTPPAMESVCGYFHRSHNRSEFLIAGKLDGLHITTCSPVAPWN 502

RESULT 10  
US-09-925-301-1594  
Sequence 1594, Application US/09925301  
Patent No. US20020052308A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA106  
CURRENT APPLICATION NUMBER: US/09/925,301  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05882  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 1694  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1594  
LENGTH: 183  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (80)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (107)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (122)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (136)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (151)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (152)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (160)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-925-301-1594

Query Match 96.4%; Score 558; DB 9; Length 183;  
Best Local Similarity 96.2%; Pred. No. 3.7e-61;  
Matches 102; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 CTCVPHPTAFCSNGLVIRAKVGTPEVNOTTLVQRYEIKTKYKGFQALGDADIRF 60  
DB 37 CTCVPHPTAFCSNGLVIRAKVGTPEVNOTTLVQRYEIKTKYKGFQALGDADIRF 96  
QY 61 VTPPAMESVCGYFHRSHNRSEFLIAGKLDGLHITTCSPVAPWN 106  
DB 97 VTPPAMESVCGYFHRSHNRSEFLIAGKLDGLHITTCSPVAPWN 142

RESULT 11  
US-10-116-064-3  
Sequence 3, Application US/10116064  
Publication No. US20020115187A1  
GENERAL INFORMATION:  
APPLICANT: GREENE, JOHN M  
ROSEN, CRAIG  
TITLE OF INVENTION: HUMAN TISSUE INHIBITOR OF  
METALLOPROTEINASE-4  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: HUMAN GENOME SCIENCES, INC.  
STREET: 9410 KEY WEST AVE  
CITY: ROCKVILLE  
STATE: MD  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/116,064  
FILING DATE: 05-APR-2002  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/262,087  
FILING DATE: 04-MAR-1999  
APPLICATION NUMBER: PCT/US94/14498  
FILING DATE: 13-FEB-1994  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 218 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-10-116-064-3

Query Match 39.0%; Score 226; DB 14; Length 218;  
Best Local Similarity 44.2%; Pred. No. 6.3e-20;  
Matches 50; Conservative 16; Mismatches 33; Indels 14; Gaps 5;

QY 1 CTCVPHPTAFCSNGLVIRAKVGTPEVNO-----TTLVQRYEIKTKYKGFQALGD 54  
DB 27 CSCSPVHQAFNCADVIRAKVASEKEVDSNDIYGPRIKRIYEIKI-KMKF-----GP 80  
QY 55 AADIRFVTPPAMESVCGYFHRSHNRSEFLIAGKLDGLHITTCSPVAPWN 106  
DB 81 EKDIETVTPPAMESVCGYFHRSHNRSEFLIAGKLDGLHITTCSPVAPWN 132

RESULT 12  
US-10-116-064-4  
Sequence 4, Application US/10116064  
Publication No. US20020115187A1  
GENERAL INFORMATION:

```
APPLICANT: GREENE, JOHN M
ROSEN, CRAIG
TITLE OF INVENTION: HUMAN TISSUE INHIBITOR OF
METALLOPROTEINASE-4
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESS: HUMAN GENOME SCIENCES, INC.
STREET: 9410 KEY WEST AVE
CITY: ROCKVILLE
STATE: MD
COUNTRY: USA
ZIP: 20850

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/116,064
FILING DATE: 05-Apr-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/262,087
FILING DATE: 04-MAR-1999
APPLICATION NUMBER: PCT/US94/14498
FILING DATE: 13-FEB-1994

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 210 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-116-064-4

Query Match
Best Local Similarity 36.2%; Score 209.5; DB 14; Length 210;
Matches 45; Conservative 18; Mismatches 35; Indels 11; Gaps 4;

Cy 1 CTCVPPHQTAFCSNDIVIRAKFVGTPEVNO---TTLYQRYEIKTKTKYKGFQALGDAD 57
Db 24 CTCSSHPODQHCNSDIVIRAKVKGKLVKEGPFSTLV--YTIKQMKYRGFTKMPHV-- 79

Cy 58 IRFVYTPAMESVCGYFHRSHNRSEFLIAGKLQDLHITTCSEFVAPW 106
Db 80 --YIHTESESLCG--KLEVNKKYQYLLTGRTYDGMKTGTCNFERMD 124

RESULT 13
US-09-901-904-2
; Sequence 2, Application US/09901904
; Patent No. US20020055158A1
; GENERAL INFORMATION:
; APPLICANT: Greene et al.
; TITLE OF INVENTION: Human Tissue Inhibitor of Metalloproteinase-4
; FILE REFERENCE: PFI48P2
; CURRENT APPLICATION NUMBER: US/09/901,904
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: US 60/220,829
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: US 60/217,419
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: US 09/387,525
; PRIOR FILING DATE: 1999-09-01
; PRIOR APPLICATION NUMBER: US 08/463,261
; PRIOR FILING DATE: 1995-06-01
; PRIOR APPLICATION NUMBER: PCT/ US94/14498
; PRIOR FILING DATE: 1994-12-13
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 224
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TYPE: PRT
ORGANISM: Homo sapiens
US-09-901-904-2

Query Match
Best Local Similarity 34.8%; Score 201.5; DB 9; Length 224;
Matches 42; Conservative 21; Mismatches 38; Indels 11; Gaps 4;

Cy 1 CTCVPPHQTAFCSNDIVIRAKF-----VGTPEVNOITLYQRYEIKTKYKGFQALGD 54
Db 30 CSCAPAHPOQHICHSALVIRAKISSEKVPASADPADTEKRLRYEIKTKYKGFQKV-- 87

Cy 55 AADIRFVYTPAMESVCGYFHRSHNRSEFLIAGK-LQDGLHITTCSEFVAPW 105
Db 88 -KDVQYIYTPDSSLG--VKLEANSQKQYLLTGQVLSGKVFHLCNYIEPW 137

RESULT 14
US-09-947-715-2
; Sequence 2, Application US/09947715
; Patent No. US20020103122A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Methods of Treatment and Prevention of Restenosis
; FILE REFERENCE: PFI17P1
; CURRENT APPLICATION NUMBER: US/09/947,715
; CURRENT FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: PCT/US00/06279
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: 09/266,424
; PRIOR FILING DATE: 1999-03-11
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-947-715-2

Query Match
Best Local Similarity 34.8%; Score 201.5; DB 10; Length 224;
Matches 42; Conservative 21; Mismatches 38; Indels 11; Gaps 4;

Cy 1 CTCVPPHQTAFCSNDIVIRAKF-----VGTPEVNOITLYQRYEIKTKYKGFQALGD 54
Db 30 CSCAPAHPOQHICHSALVIRAKISSEKVPASADPADTEKRLRYEIKTKYKGFQKV-- 87

Cy 55 AADIRFVYTPAMESVCGYFHRSHNRSEFLIAGK-LQDGLHITTCSEFVAPW 105
Db 88 -KDVQYIYTPDSSLG--VKLEANSQKQYLLTGQVLSGKVFHLCNYIEPW 137

RESULT 15
US-10-116-064-2
; Sequence 2, Application US/10116064
; Publication No. US20020115187A1
; GENERAL INFORMATION:
; APPLICANT: GREENE, JOHN M
; TITLE OF INVENTION: HUMAN TISSUE INHIBITOR OF
METALLOPROTEINASE-4
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
; STREET: 9410 KEY WEST AVE
; CITY: ROCKVILLE
; STATE: MD
; COUNTRY: USA
; ZIP: 20850

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/116,064  
 FILING DATE: 05-Apr-2002  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 09/262,087  
 FILING DATE: 04-MAR-1999  
 APPLICATION NUMBER: PCT/US94/14498  
 FILING DATE: 13-FEB-1994  
 INFORMATION FOR SEQ ID NO: 2:  
 LENGTH: 224 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
 US-10-116-064-2

Query Match 34.8%; Score 201.5; DB 14; Length 224;  
 Best Local Similarity 37.5%; Pred. No. 7,1e-17;  
 Matches 42; Conservative 21; Mismatches 38; Indels 11; Gaps 4;  
 QY 1 CTCVPHPTAFPCNSDLYIRAKF-----VGTPENVNQTLLYORYEIKMTKMYKGFQALGD 54  
 DB 30 CSCAPAHPOOHCHSALVIRAKISSBKVPASADPADTEKMLRYEIKQIKMFKGFQV-- 87  
 QY 55 AADIRFVYTPAMESVCGYFHRSHNRSEELIAGK-LQDGLHITTCSTFAPW 105  
 DB 88 -KDVQYIYTPDSSLCG-VKLEANSQKQYLLTGQVLSDGKVPFIHLCTNYLEPW 137

Search completed: July 25, 2003, 13:08:11  
 Job time : 28.4686 secs

GenCore version 5.1.6  
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OM protein - protein search, using SW model

Run on: July 25, 2003, 12:38:05 ; Search time 5.10286 Seconds  
(without alignments)  
315.081 Million cell updates/sec

Title: US-09-987-357-3

Perfect score: 203

Sequence: 1 GHRRRSSAQRDTRPTAPFPDPLHPVAVADSPSRA 38

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_AA:  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	203	100.0	38	4	US-09-452-817-3
2	109	53.7	22	4	US-09-452-817-4
3	56.5	27.8	148	4	US-09-252-991A-28274
4	56	27.6	52	3	US-08-851-843A-184
5	56	27.6	52	3	US-08-974-549A-303
6	56	27.6	52	3	US-08-854-050-184
7	56	27.6	52	4	US-09-430-323-184
8	55	27.1	472	4	US-09-252-991A-17011
9	54	26.6	277	4	US-09-252-991A-25033
10	54	26.6	1452	2	US-08-449-644-8
11	54	26.6	1452	2	US-08-087-244A-8
12	52.5	25.9	611	4	US-09-252-991A-32402
13	52	25.6	279	4	US-09-252-991A-32443
14	52	25.6	720	4	US-09-252-991A-21881
15	51.5	25.4	239	4	US-09-252-991A-21250
16	51.5	25.4	699	5	PCT-US94-07297-39
17	51.5	25.4	921	1	US-08-396-479B-2
18	51.5	25.4	921	1	US-08-818-823-2
19	51.5	25.4	1171	4	US-09-417-197-131
20	51.5	25.4	1181	4	US-09-417-197-133
21	51	25.1	151	4	US-09-252-991A-28890
22	51	25.1	270	4	US-09-252-991A-29260
23	51	25.1	396	4	US-09-198-452A-147
24	51	25.1	580	4	US-09-252-991A-22036
25	51	25.1	630	2	US-08-596-319-2
26	50.5	24.9	1046	4	US-09-252-991A-27508
27	50	24.6	527	4	US-09-252-991A-21680

28	49	24.1	314	4	US-09-252-991A-18489	Sequence 18489, A
29	48.5	23.9	137	4	US-09-252-991A-29763	Sequence 29763, A
30	48.5	23.9	258	3	US-08-303-861-18	Sequence 18, Appl
31	48.5	23.9	258	3	US-08-303-861-19	Sequence 19, Appl
32	48.5	23.9	258	4	US-09-213-343-2	Sequence 2, Appl
33	48.5	23.9	628	4	US-09-252-991A-18780	Sequence 18780, A
34	48.5	23.9	673	4	US-09-252-991A-29503	Sequence 29503, A
35	48.5	23.9	1145	4	US-09-470-443-2	Sequence 2, Appl
36	48.5	23.9	1145	4	US-09-470-443-4	Sequence 29006, A
37	48	23.6	188	4	US-09-252-991A-29006	Sequence 26181, A
38	48	23.6	227	4	US-09-252-991A-26181	Sequence 18771, A
39	48	23.6	254	4	US-09-252-991A-19771	Sequence 24065, A
40	48	23.6	361	4	US-09-252-991A-20316	Sequence 20316, A
41	48	23.6	391	4	US-09-252-991A-18437	Sequence 18437, A
42	48	23.6	430	4	US-09-252-991A-18437	Sequence 27958, A
43	48	23.6	465	4	US-09-252-991A-27958	Sequence 28435, A
44	48	23.6	567	4	US-09-252-991A-28435	Sequence 28836, A
45	48	23.6	589	4	US-09-252-991A-28836	

#### ALIGNMENTS

```

RESULT 1
US-09-452-817-3
; Sequence 3, Application US/09452817
; Patent No. 6342374
; GENERAL INFORMATION:
; APPLICANT: Carmichael, David F
; APPLICANT: Anderson, David C
; APPLICANT: Stricklin, George P
; APPLICANT: Welgus, Howard G
; TITLE OF INVENTION: Human Collagenase Inhibitor; Recombinant Vector System
; TITLE OF INVENTION: For Using Same And Recombinant-DNA Method For
; FILE REFERENCE: Serial No. 6342374 09/452,817
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US/09/452,817
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/050,739
; PRIOR FILING DATE: 1993-04-21
; PRIOR APPLICATION NUMBER: 07/853,018
; PRIOR FILING DATE: 1992-03-18
; PRIOR APPLICATION NUMBER: 07/517,475
; PRIOR FILING DATE: 1990-05-01
; PRIOR APPLICATION NUMBER: 07/320,923
; PRIOR FILING DATE: 1989-03-08
; PRIOR APPLICATION NUMBER: 06/784,319
; PRIOR FILING DATE: 1985-10-04
; PRIOR APPLICATION NUMBER: 06/699,181
; PRIOR FILING DATE: 1985-02-05
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 38
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-452-817-3

Query Match      100.0%; Score 203; DB 4; Length 38;
Best Local Similarity 100.0%; Pred. No. 4.9e-22;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 GHRRRSSAQRDTRPTAPFPDPLHPVAVADSPSRA 38
Db      1 GHRRRSSAQRDTRPTAPFPDPLHPVAVADSPSRA 38

RESULT 2
US-09-452-817-4
; Sequence 4, Application US/09452817
; Patent No. 6342374

```

GENERAL INFORMATION:  
APPLICANT: Carmichael, David F  
APPLICANT: Anderson, David C  
APPLICANT: Stricklin, George P  
APPLICANT: Weigus, Howard G  
TITLE OF INVENTION: Human Collagenase Inhibitor, Recombinant Vector System  
TITLE OF INVENTION: For Using Same And Recombinant-DNA Method For  
FILE REFERENCE: Serial No. 6342374 09/452, 817  
CURRENT APPLICATION NUMBER: US/09/452, 817  
CURRENT FILING DATE: 2001-06-22  
PRIOR APPLICATION NUMBER: 08/474, 553  
PRIOR FILING DATE: 1995-06-07  
PRIOR APPLICATION NUMBER: 08/050, 739  
PRIOR FILING DATE: 1993-04-21  
PRIOR APPLICATION NUMBER: 07/853, 018  
PRIOR FILING DATE: 1992-03-18  
PRIOR APPLICATION NUMBER: 07/517, 475  
PRIOR FILING DATE: 1990-05-01  
PRIOR APPLICATION NUMBER: 07/320, 923  
PRIOR FILING DATE: 1989-03-08  
PRIOR APPLICATION NUMBER: 06/784, 319  
PRIOR FILING DATE: 1985-10-04  
PRIOR APPLICATION NUMBER: 06/699, 181  
PRIOR FILING DATE: 1985-02-05  
NUMBER OF SEQ ID NOS: 20  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 22  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-452-817-4

Query Match 53.7%; Score 109; DB 4; Length 22;  
Best Local Similarity 95.5%; Pred. No. 5e-09;  
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 17 MAPFPMILHPVAVADSPSRA 38  
Db 1 MALFPMILHPVAVADSPSRA 22

RESULT 3  
US-09-252-991A-28274  
Sequence 28274, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196, 136  
CURRENT APPLICATION NUMBER: US/09/252, 991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074, 788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094, 190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 28274  
LENGTH: 148  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-28274

Query Match 27.8%; Score 56.5; DB 4; Length 148;  
Best Local Similarity 34.0%; Pred. No. 1.1;  
Matches 17; Conservative 2; Mismatches 16; Indels 15; Gaps 2;

Qy 4 RRRSSAQRDTRP-----TWAPPDMLHPVAVAV---DSPSRA 38  
Db 11 RISPSPSRSTSPPAAPSACRPMWPAIRASPSPMWIRPSAATAATIRSPGRS 60

RESULT 4  
US-08-851-843A-184  
Sequence 184, Application US/08851843A  
Patent No. 6093899  
GENERAL INFORMATION:  
APPLICANT: Cech, Thomas R.  
APPLICANT: Lingner, Joachim  
APPLICANT: Nakamura, Toru  
APPLICANT: Chapman, Karen B.  
APPLICANT: Morin, Gregg B.  
APPLICANT: Hatley, Calvin  
TITLE OF INVENTION: No. 6093809e1 Telomerase  
NUMBER OF SEQUENCES: 225  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: United States of America  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/851, 843A  
FILING DATE: 06-MAY-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/846, 017  
FILING DATE: 25-APR-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/844, 419  
FILING DATE: 18-APR-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/724, 643  
FILING DATE: 01-OCT-1996  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Apple, Randolph T.  
REGISTRATION NUMBER: 36,429  
REFERENCE/DOCKET NUMBER: 015389-002930US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 184:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 52 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-851-843A-184

Query Match 27.6%; Score 56; DB 3; Length 52;  
Best Local Similarity 36.8%; Pred. No. 0.41;  
Matches 14; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

Qy 1 GHRSSAQRDTRPPTMAFPDMLHPVAVADSPSRA 38  
Db 11 GSRSSPSASNPRTTACTCGMPWSRRPDMGTSAAPSRA 48

RESULT 5  
US-08-974-549A-303  
Sequence 303, Application US/08974549A  
Patent No. 6166178  
GENERAL INFORMATION:  
APPLICANT: Cech, Thomas R.

APPLICANT: Lingner, Joachim  
 APPLICANT: Nakamura, Toru  
 APPLICANT: Chapman, Karen B.  
 APPLICANT: Morin, Gregg B.  
 APPLICANT: Harley, Calvin B.  
 APPLICANT: Andrews, William H.  
 TITLE OF INVENTION: Human Telomerase Catalytic Subunit  
 NUMBER OF SEQUENCES: 727  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Townsend and Townsend and Crew LLP  
 STREET: Two Embarcadero Center, Eighth Floor  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111-3834  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/974,549A  
 FILING DATE: 19-NOV-1997  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/724,643  
 FILING DATE: 01-OCT-1996  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/844,419  
 FILING DATE: 18-APR-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/846,017  
 FILING DATE: 25-APR-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/851,843  
 FILING DATE: 06-MAY-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/854,050  
 FILING DATE: 09-MAY-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/911,312  
 FILING DATE: 14-AUG-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/912,951  
 FILING DATE: 14-AUG-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/915,503  
 FILING DATE: 14-AUG-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: WO PCT/US97/17618  
 FILING DATE: 01-OCT-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: WO PCT/US97/17885  
 FILING DATE: 01-OCT-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Apple, Randolph Ted  
 REGISTRATION NUMBER: 36,429  
 REFERENCE/DOCKET NUMBER: 015389-002610US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 576-0200  
 TELEFAX: (415) 576-0300  
 INFORMATION FOR SEQ ID NO: 303:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 52 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-974-549A-303

Query Match 27.6%; Score 56; DB 3; Length 52;  
 Best Local Similarity 36.8%; Pred. No. 0.41;  
 Matches 14; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

Qy 1 GHRSSAQRDTRPTWAPFDPWILHPVAVADSPSRA 38  
 Db 11 GSRSSPSSNPRTRTACVGMFMSRRPMTGSAPPSRA 48  
 RESULT 6  
 US-08-854-050-184  
 Sequence 184, Application US/08854050  
 Patent No. 6261836  
 GENERAL INFORMATION:  
 APPLICANT: Cech, Thomas R.  
 APPLICANT: Lingner, Joachim  
 APPLICANT: Nakamura, Toru  
 APPLICANT: Chapman, Karen B.  
 APPLICANT: Morin, Gregg B.  
 APPLICANT: Harley, Calvin B.  
 APPLICANT: Andrews, William H.  
 TITLE OF INVENTION: No. 6261836el Telomerase  
 NUMBER OF SEQUENCES: 225  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Townsend and Townsend and Crew LLP  
 STREET: Two Embarcadero Center, 8th Floor  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: United States of America  
 ZIP: 94111  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/854,050  
 FILING DATE: 09-MAY-1997  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/851,843  
 FILING DATE: 06-MAY-1997  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/846,017  
 FILING DATE: 25-APR-1997  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/844,419  
 FILING DATE: 18-APR-1997  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/724,643  
 FILING DATE: 01-OCT-1996  
 CLASSIFICATION: 536  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Apple, Randolph T.  
 REGISTRATION NUMBER: 36,429  
 REFERENCE/DOCKET NUMBER: 015389-002930US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 576-0200  
 TELEFAX: (415) 576-0300  
 INFORMATION FOR SEQ ID NO: 184:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 52 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-854-050-184

Query Match 27.6%; Score 56; DB 3; Length 52;  
 Best Local Similarity 36.8%; Pred. No. 0.41;  
 Matches 14; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

Db 11 GSRSSPSSNPRTACTACGMPMSRRPMPGTSAARPSRA 48

## RESULT 7

US-09-430-323-184  
; Sequence 184, Application US/09430323  
; Patent No. 6309867  
; GENERAL INFORMATION:  
; APPLICANT: Cech, Thomas R.  
; Lingner, Joachim  
; Nakamura, Toru  
; Chapman, Karen B.  
; Morin, Gregg B.  
; Harley, Calvin  
; Andrews, William H.  
; TITLE OF INVENTION: No. 6309867el Telomerase  
; NUMBER OF SEQUENCES: 225  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, 8th Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: United States of America  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentm Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/430,323  
; FILING DATE: 29-Oct-1999  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/854,050  
; FILING DATE: 09-MAY-1997  
; APPLICATION NUMBER: US 08/851,843  
; FILING DATE: 06-MAY-1997  
; APPLICATION NUMBER: US 08/846,017  
; FILING DATE: 25-APR-1997  
; APPLICATION NUMBER: US 08/844,419  
; FILING DATE: 18-APR-1997  
; APPLICATION NUMBER: US 08/724,643  
; FILING DATE: 01-OCT-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Apple, Randolph T.  
; REGISTRATION NUMBER: 36,429  
; REFERENCE/DOCKET NUMBER: 015389-002930US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 184:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 52 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: <unknown>  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; SEQUENCE DESCRIPTION: SEQ ID NO: 184:  
US-09-430-323-184

Query Match 27.6%; Score 56; DB 4; Length 52;  
Best Local Similarity 36.8%; Pred. No. 0.41; 21; Indels 0; Gaps 0;

Matches 14; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

Db 11 GSRSSPSSNPRTACTACGMPMSRRPMPGTSAARPSRA 48

## RESULT 8

US-09-252-991A-17011

; Sequence 17011, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 17011  
; LENGTH: 472  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-17011

Query Match 27.1%; Score 55; DB 4; Length 472;  
Best Local Similarity 48.3%; Pred. No. 7; 12; Indels 2; Gaps 1;

Matches 14; Conservative 1; Mismatches 12; Indels 2; Gaps 1;

Db 2 HRRSSAQRDTRP--TWAPDPMLHPV 28  
131 HRRTRARTRVRPPARTAGREPMPGHV 159

## RESULT 9

US-09-252-991A-25033  
; Sequence 25033, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 25033  
; LENGTH: 277  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-25033

Query Match 26.6%; Score 54; DB 4; Length 277;  
Best Local Similarity 36.4%; Pred. No. 5.3; 15; Indels 10; Gaps 1;

Matches 16; Conservative 3; Mismatches 15; Indels 10; Gaps 1;

Db 3 RRRSSAQR-----DTRPPTMAPDPMLHPVAVADSPS 36  
102 RRRSSAQRPGCGTARRGGRSPRAPRPWRSMCAVADSPS 145

## RESULT 10

US-08-449-644-8  
; Sequence 8, Application US/08449644  
; Patent No. 5856162  
; GENERAL INFORMATION:  
; APPLICANT: Schlessler, Joseph  
; APPLICANT: Sap, Jan M.  
; APPLICANT: Ulrich, Axel  
; APPLICANT: Vogel, Wolfgang  
; APPLICANT: Fuchs, Miriam  
; TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PHOSPHOTYROSINE  
; TITLE OF INVENTION: PHOSPHATASE-KAPPA  
; NUMBER OF SEQUENCES: 11



;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: PENNIE & EDMONDS  
;; STREET: 1155 Avenue of the Americas  
;; CITY: New York  
;; STATE: New York  
;; COUNTRY: U.S.A.  
;; ZIP: 10036  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent in Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/449,644  
;; FILING DATE: 24-MAY-1995  
;; CLASSIFICATION: 514  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 08/087,244  
;; FILING DATE: 01-JUL-1993  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Coruzzi, Laura A.  
;; REGISTRATION NUMBER: 30,742  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 212-790-9090  
;; TELEFAX: 212-869-8864/9741  
;; TELEX: 66141 PENNIE  
;; INFORMATION FOR SEQ ID NO: 8:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 1452 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: unknown  
;; MOLECULE TYPE: protein  
US-08-449-644-8

Query Match 26.6%; Score 54; DB 2; Length 1452;  
Best Local Similarity 47.6%; Pred. No. 35;  
Matches 10; Conservative 2; Mismatches 9; Indels 0; Gaps 0;

QY 13 REPMPAPDPWLLHPVAVAD 33  
DB 864 REPADVPTQQLHPAIRVAD 884

RESULT 11  
US-08-087-244A-8  
; Sequence 8, Application US/08087244A  
; Patent No. 5863755  
; GENERAL INFORMATION:  
; APPLICANT: Schlessinger, Joseph  
; APPLICANT: Sap, Jan M.  
; APPLICANT: Ulrich, Axel  
; APPLICANT: Vogel, Wolfgang  
; APPLICANT: Fuchs, Miriam  
; TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PHOSPHOTYROSINE  
; TITLE OF INVENTION: PHOSPHATASE-KAPPA  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: PENNIE & EDMONDS  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/087,244A  
; FILING DATE: 01-JUL-1993

;; CLASSIFICATION: 435  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Coruzzi, Laura A.  
;; REGISTRATION NUMBER: 30,742  
;; REFERENCE/DOCKET NUMBER: 7683-042  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 212-790-9090  
;; TELEFAX: 212-869-8864/9741  
;; TELEX: 66141 PENNIE  
;; INFORMATION FOR SEQ ID NO: 8:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 1452 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: unknown  
;; MOLECULE TYPE: protein  
US-08-087-244A-8

Query Match 26.6%; Score 54; DB 2; Length 1452;  
Best Local Similarity 47.6%; Pred. No. 35;  
Matches 10; Conservative 2; Mismatches 9; Indels 0; Gaps 0;

QY 13 REPMPAPDPWLLHPVAVAD 33  
DB 864 REPADVPTQQLHPAIRVAD 884

RESULT 12  
US-09-252-991A-32402  
; Sequence 32402, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 32402  
; LENGTH: 611  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-32402

Query Match 25.9%; Score 52.5; DB 4; Length 611;  
Best Local Similarity 41.5%; Pred. No. 21;  
Matches 17; Conservative 4; Mismatches 13; Indels 7; Gaps 3;

QY 5 RSSAORDTREPMPAPF-DPWL-LHPVAV-----ADSPSRA 38  
DB 134 RRAATETTHBPAPAPYDPDRGLHPALVAGRGDLALPARA 174

RESULT 13  
US-09-252-991A-32443  
; Sequence 32443, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27



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OM protein - protein search, using SW model

Run on: July 25, 2003, 12:53:51 ; Search time 10.2057 Seconds

(without alignments)  
442.191 Million cell updates/sec

Title: US-09-987-357-3

Perfect score: 203  
Sequence: 1 GHRRRSSAQRDTRPTMAPDPMLHPVAVVADSPSRA 38

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database :

Published Applications\_AA:\*

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- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep:\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep:\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep:\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep:\*
- 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep:\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep:\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep:\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep:\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep:\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep:\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep:\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep:\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep:\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	87.5	43.1	183	9	US-09-925-301-1594
2	56	27.6	52	10	US-09-843-676-184
3	56	27.6	52	11	US-09-438-486-184
4	56	27.6	52	15	US-10-053-758-184
5	56	27.6	52	15	US-10-054-295-184
6	56	27.6	52	15	US-10-054-611-184
7	54	26.6	559	10	US-09-858-155A-2
8	52	25.6	413	15	US-10-156-761-9775
9	52	25.6	822	10	US-09-147-947-6
10	51.5	25.4	653	15	US-10-156-761-12063
11	51.5	25.4	1171	15	US-10-072-036-131
12	51.5	25.4	1181	15	US-10-072-036-133
13	51	25.1	248	9	US-09-925-299-958
14	51	25.1	248	11	US-09-925-299-958
15	50.5	24.9	103	9	US-09-764-853-599

16	50.5	24.9	125	15	US-10-156-761-8367	Sequence 8367, Ap
17	50.5	24.9	524	10	US-09-738-626-3502	Sequence 3502, Ap
18	50	24.6	643	15	US-10-192-985-1	Sequence 1, Appl1
19	49.5	24.4	335	15	US-10-156-761-14847	Sequence 14847, A
20	49.5	24.4	798	15	US-10-270-333-51	Sequence 51, Appl1
21	49.5	24.4	852	15	US-10-027-828-15	Sequence 15, Appl1
22	49	24.1	25	9	US-09-864-761-40371	Sequence 40371, A
23	48.5	23.9	337	9	US-09-925-301-1021	Sequence 1021, Ap
24	48.5	23.9	1145	15	US-10-116-849-2	Sequence 2, Appl1
25	48.5	23.9	1145	15	US-10-116-849-4	Sequence 4, Appl1
26	48	23.6	126	9	US-09-864-761-48848	Sequence 48848, A
27	48	23.6	194	15	US-10-156-761-13095	Sequence 13095, A
28	48	23.6	228	15	US-10-156-761-10048	Sequence 10048, A
29	48	23.6	377	9	US-09-864-761-17825	Sequence 37825, A
30	48	23.6	917	14	US-10-047-542-76	Sequence 76, Appl1
31	47.5	23.4	334	15	US-10-156-761-13357	Sequence 13357, A
32	47.5	23.4	837	11	US-09-988-626-228	Sequence 228, Ap
33	47.5	23.4	837	11	US-09-988-687-228	Sequence 228, Ap
34	47.5	23.4	837	11	US-09-988-686-228	Sequence 228, Ap
35	47	23.2	22	14	US-10-001-876-131	Sequence 131, Ap
36	47	23.2	51	9	US-09-864-761-48124	Sequence 48124, A
37	47	23.2	218	15	US-10-191-029-7	Sequence 7, Appl1
38	47	23.2	218	15	US-10-191-029-9	Sequence 9, Appl1
39	47	23.2	260	11	US-09-994-064-9	Sequence 9, Appl1
40	47	23.2	260	11	US-09-994-064-70	Sequence 70, Appl1
41	47	23.2	271	9	US-09-741-669-342	Sequence 342, Ap
42	47	23.2	271	9	US-09-815-242-10403	Sequence 10403, A
43	47	23.2	1198	15	US-10-156-761-8467	Sequence 8467, Ap
44	46.5	22.9	149	11	US-09-895-298-218	Sequence 218, Ap
45	46.5	22.9	342	15	US-10-156-761-8563	Sequence 8563, Ap

#### ALIGNMENTS

RESULT 1  
US-09-925-301-1594  
; Sequence 1594, Application US/09925301  
; Patent No. US20020052308A1  
GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA106  
; CURRENT APPLICATION NUMBER: US/09/925.301  
; PRIOR FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05882  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; NUMBER OF SEQ ID NOS: 1694  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1594  
LENGTH: 183  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (80)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (107)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (122)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (136)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (151)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (152)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (160)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-925-301-1594

Query Match 43.1%; Score 87.5; DB 9; Length 183;  
Best Local Similarity 50.0%; Pred. No. 0.00057;  
Matches 20; Conservative 3; Mismatches 0; Indels 17; Gaps 2;

QY 8 AQRDREPTMAPDP-----WLLHVVAVADSPSRA 38  
DB 5 AQRDREPTMAPDPGLASGILLML-----APSRA 36

## RESULT 2

US-09-843-676-184  
Sequence 184, Application US/09843676  
Patent No. US20020164786A1  
GENERAL INFORMATION:

APPLICANT: Cecch, Thomas R.

Lingner, Joachim

Nakamura, Toru

Chapman, Karen B.

Morin, Gregg B.

Harley, Calvin

Andrews, William H.

TITLE OF INVENTION: No. US20020164786A1 Telomerase

NUMBER OF SEQUENCES: 225

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, 8th Floor

CITY: San Francisco

STATE: California

COUNTRY: United States of America

ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/843,676

FILING DATE: 26-APR-2001

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/854,050

FILING DATE: 09-MAY-1997

APPLICATION NUMBER: US 08/846,017

FILING DATE: 25-APR-1997

APPLICATION NUMBER: US 08/844,419

FILING DATE: 18-APR-1997

APPLICATION NUMBER: US 08/724,643

FILING DATE: 01-OCT-1996

ATTORNEY/AGENT INFORMATION:

NAME: Apple, Randolph T.

REGISTRATION NUMBER: 36,429

REFERENCE/DOCKET NUMBER: 015389-002930US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300

INFORMATION FOR SEQ ID NO: 184:

SEQUENCE CHARACTERISTICS:

LENGTH: 52 amino acids

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 184:

US-09-843-676-184  
Query Match 27.6%; Score 56; DB 10; Length 52;  
Best Local Similarity 36.8%; Pred. No. 2.1;

Matches 14; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

QY 1 GHRSSAQRDREPTMAPDPWLLHVVAVADSPSRA 38  
DB 11 GHRSSPASNSNRTIACVGMFSRRPPMGTISARSRA 48

RESULT 3  
US-09-438-486-184  
Sequence 184, Application US/09438486  
Publication No. US20030009019A1  
GENERAL INFORMATION:

APPLICANT: Cecch, Thomas R.

Lingner, Joachim

APPLICANT: Nakamura, Toru

APPLICANT: Chapman, Karen B.

APPLICANT: Morin, Gregg B.

APPLICANT: Harley, Calvin

APPLICANT: Andrews, William H.

TITLE OF INVENTION: No. US20030009019A1 Telomerase

NUMBER OF SEQUENCES: 223

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, 8th Floor

CITY: San Francisco

STATE: California

COUNTRY: United States of America

ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/438,486

FILING DATE: 12-NOV-1999

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/851,843

FILING DATE: 06-MAY-1997

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/846,017

FILING DATE: 25-APR-1997

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/844,419

FILING DATE: 18-APR-1997

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/724,643

FILING DATE: 01-OCT-1996

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Apple, Randolph T.

REGISTRATION NUMBER: 36,429

REFERENCE/DOCKET NUMBER: 015389-002931US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300

INFORMATION FOR SEQ ID NO: 184:

SEQUENCE CHARACTERISTICS:

LENGTH: 52 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-09-438-486-184  
Query Match 27.6%; Score 56; DB 11; Length 52;  
Best Local Similarity 36.8%; Pred. No. 2.1;  
Matches 14; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

QY 1 GHRSSAQRDTREPTMAPDPFWLHPVAVADSPSRA 38  
 Db 11 GSRSSPASSNPRRTTACVGMFMSRRPMTGSARPSRA 48

RESULT 4

US-10-053-758-184  
 ; Sequence 184, Application US/10053758  
 ; Publication No. US20030032075A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cecch, Thomas R.  
 ; Lingner, Joachim  
 ; Nakamura, Toru  
 ; Chapman, Karen B.  
 ; Morin, Gregg B.  
 ; Harley, Calvin  
 ; Andrews, William H.  
 ; TITLE OF INVENTION: No. US20030032075A1el Telomerase  
 ; NUMBER OF SEQUENCES: 225  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Townsend and Townsend and Crew LLP  
 ; STREET: Two Embarcadero Center, 8th Floor  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: United States of America  
 ; ZIP: 94111  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; OPERATING SYSTEM: IBM PC compatible  
 ; SOFTWARE: Patentin Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/053,758  
 ; FILING DATE: 18-Jan-2002  
 ; CLASSIFICATION: 536  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/854,050  
 ; FILING DATE: 09-MAY-1997  
 ; APPLICATION NUMBER: US 08/851,843  
 ; FILING DATE: 06-MAY-1997  
 ; APPLICATION NUMBER: US 08/846,017  
 ; FILING DATE: 25-APR-1997  
 ; APPLICATION NUMBER: US 08/844,419  
 ; FILING DATE: 18-APR-1997  
 ; APPLICATION NUMBER: US 08/724,643  
 ; FILING DATE: 01-OCT-1996  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Apple, Randolph T.  
 ; REGISTRATION NUMBER: 36,429  
 ; REFERENCE/DOCKET NUMBER: 015389-002930US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (415) 576-0200  
 ; TELEFAX: (415) 576-0300  
 ; INFORMATION FOR SEQ ID NO: 184:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 52 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: <Unknown>  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 184:  
 US-10-053-758-184

Query Match 27.6%; Score 56; DB 15; Length 52;  
 Best Local Similarity 36.8%; Pred. No. 2.1; Indels 0; Gaps 0;  
 Matches 14; Conservative 3; Mismatches 21;

QY 1 GHRSSAQRDTREPTMAPDPFWLHPVAVADSPSRA 38  
 Db 11 GSRSSPASSNPRRTTACVGMFMSRRPMTGSARPSRA 48

RESULT 5

US-10-054-295-184  
 ; Sequence 184, Application US/10054295  
 ; Publication No. US20030044953A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cecch, Thomas R.  
 ; Lingner, Joachim  
 ; Nakamura, Toru  
 ; Chapman, Karen B.  
 ; Morin, Gregg B.  
 ; Harley, Calvin  
 ; Andrews, William H.  
 ; TITLE OF INVENTION: No. US20030044953A1el Telomerase  
 ; NUMBER OF SEQUENCES: 225  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Townsend and Townsend and Crew LLP  
 ; STREET: Two Embarcadero Center, 8th Floor  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: United States of America  
 ; ZIP: 94111  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; OPERATING SYSTEM: IBM PC compatible  
 ; SOFTWARE: Patentin Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/054,295  
 ; FILING DATE: 18-Jan-2002  
 ; CLASSIFICATION: 536  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/854,050  
 ; FILING DATE: <Unknown>  
 ; APPLICATION NUMBER: US 08/846,017  
 ; FILING DATE: 25-APR-1997  
 ; APPLICATION NUMBER: US 08/844,419  
 ; FILING DATE: 18-APR-1997  
 ; APPLICATION NUMBER: US 08/724,643  
 ; FILING DATE: 01-OCT-1996  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Apple, Randolph T.  
 ; REGISTRATION NUMBER: 36,429  
 ; REFERENCE/DOCKET NUMBER: 015389-002930US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (415) 576-0200  
 ; TELEFAX: (415) 576-0300  
 ; INFORMATION FOR SEQ ID NO: 184:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 52 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: <Unknown>  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 184:  
 US-10-054-295-184

Query Match 27.6%; Score 56; DB 15; Length 52;  
 Best Local Similarity 36.8%; Pred. No. 2.1; Indels 0; Gaps 0;  
 Matches 14; Conservative 3; Mismatches 21;

QY 1 GHRSSAQRDTREPTMAPDPFWLHPVAVADSPSRA 38  
 Db 11 GSRSSPASSNPRRTTACVGMFMSRRPMTGSARPSRA 48

RESULT 6

US-10-054-611-184  
 ; Sequence 184, Application US/10054611  
 ; Publication No. US20030059787A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cecch, Thomas R.  
 ; Lingner, Joachim  
 ; Nakamura, Toru  
 ; Chapman, Karen B.

;;  
;;  
;; TITLE OF INVENTION: No. US20030059787A1el Telomerase  
;;  
;; NUMBER OF SEQUENCES: 225  
;;  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESS: Townsend and Townsend and Crew LLP  
;; STREET: Two Embarcadero Center, 8th Floor  
;; CITY: San Francisco  
;; STATE: California  
;; COUNTRY: United States of America  
;;  
;; ZIP: 94111  
;;  
;; COMPUTER READABLE FORM:  
;;  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.30  
;;  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/10/054,611  
;; FILING DATE: 18-Jan-2002  
;; CLASSIFICATION: 536  
;;  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/854,050  
;; FILING DATE: <Unknown>  
;; APPLICATION NUMBER: US 08/846,017  
;; FILING DATE: 25-APR-1997  
;; APPLICATION NUMBER: US 08/844,419  
;; FILING DATE: 18-APR-1997  
;; APPLICATION NUMBER: US 08/724,643  
;; FILING DATE: 01-OCT-1996  
;;  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Apple, Randolph T.  
;; REGISTRATION NUMBER: 36,429  
;; REFERENCE/DOCKET NUMBER: 015389-002930US  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (415) 576-0200  
;; TELEFAX: (415) 576-0300  
;;  
;; INFORMATION FOR SEQ ID NO: 184:  
;;  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 52 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: <Unknown>  
;; TOPOLOGY: linear  
;;  
;; MOLECULE TYPE: peptide  
;;  
;; SEQUENCE DESCRIPTION: SEQ ID NO: 184:  
US-10-054-611-184  
;  
Query Match 27.6%; Score 56; DB 15; Length 52;  
Best Local Similarity 36.8%; Pred. No. 2.1;  
Matches 14; Conservative 3; Mismatches 21; Indels 0; Gaps 0;  
;  
Qy 1 GHRSSAQRDTREPTMAPFDPMLHPVVAADSPSRA 38  
DB 11 GSRSSPASSNRRTACVGMWRRRPFMGTSARPSRA 48  
;  
RESULT 7  
US-09-858-155A-2  
;; Sequence 2, Application US/09858155A  
;; Patent No. US20020137049A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Mark, Robert  
;; APPLICANT: Young, Kathleen H.  
;; TITLE OF INVENTION: PABLO, A POLYPEPTIDE THAT INTERACTS WITH BCL-XL, AND  
;; FILE REFERENCE: GNN-005  
;; CURRENT APPLICATION NUMBER: US/09/858,155A  
;; CURRENT FILING DATE: 2001-05-15  
;; NUMBER OF SEQ ID NOS: 2  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 2  
;; LENGTH: 559  
;;

;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-09-858-155A-2  
;  
Query Match 26.6%; Score 54; DB 10; Length 559;  
Best Local Similarity 37.1%; Pred. No. 44;  
Matches 13; Conservative 6; Mismatches 16; Indels 0; Gaps 0;  
;  
Qy 2 HRRSSAQRDTREPTMAPFDPMLHPVVAADSPS 36  
DB 198 HDRRREWGKLAQGPRLEADNHLKHIEVANGRA 232  
;  
RESULT 8  
US-10-156-761-9775  
;; Sequence 9775, Application US/10156761  
;; Publication No. US20030119018A1  
;; GENERAL INFORMATION:  
;; APPLICANT: OMURA, SATOSHI  
;; APPLICANT: IKEDA, HARUO  
;; APPLICANT: ISHIKAWA, JUN  
;; APPLICANT: HORIKAWA, HIROSHI  
;; APPLICANT: SHIBA, TADAYOSHI  
;; APPLICANT: SAKAKI, YOSHIYUKI  
;; APPLICANT: HATTORI, MASAHIRA  
;; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
;; FILE REFERENCE: 249-262  
;; CURRENT APPLICATION NUMBER: US/10/156,761  
;; CURRENT FILING DATE: 2002-05-29  
;; PRIOR APPLICATION NUMBER: JP 2001-204089  
;; PRIOR FILING DATE: 2001-05-30  
;; PRIOR APPLICATION NUMBER: JP 2001-272697  
;; PRIOR FILING DATE: 2001-08-02  
;; NUMBER OF SEQ ID NOS: 15109  
;; SEQ ID NO 9775  
;; LENGTH: 413  
;; TYPE: PRT  
;; ORGANISM: Streptomyces avermitilis  
US-10-156-761-9775  
;  
Query Match 25.6%; Score 52; DB 15; Length 413;  
Best Local Similarity 41.7%; Pred. No. 59;  
Matches 10; Conservative 4; Mismatches 10; Indels 0; Gaps 0;  
;  
Qy 13 REPTMAPFDPMLHPVVAADSPS 36  
DB 211 RDTQGRWEPWLDQVTAADTPA 234  
;  
RESULT 9  
US-09-147-947-6  
;; Sequence 6, Application US/09147947A  
;; Patent No. US20020160490A1  
;; GENERAL INFORMATION:  
;; APPLICANT: TSURUOKA, No. US20020160490A1uo  
;; APPLICANT: YAMASHIRO, Kyoto  
;; APPLICANT: YAMAGUCHI, No. US20020160490A1omi  
;; TITLE OF INVENTION: No. US20020160490A1el Serine Protease  
;; FILE REFERENCE: 001560-349  
;; CURRENT APPLICATION NUMBER: US/09/147,947A  
;; CURRENT FILING DATE: 1997-03-24  
;; EARLIER APPLICATION NUMBER: PCT/JP98/03324  
;; EARLIER FILING DATE: 1998-07-24  
;; EARLIER APPLICATION NUMBER: JP 9/213969  
;; EARLIER FILING DATE: 1997-07-24  
;; NUMBER OF SEQ ID NOS: 6  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 6  
;; LENGTH: 822  
;; TYPE: PRT  
;; ORGANISM: Human  
;; FEATURE:  
;; OTHER INFORMATION:  
;;

US-09-147-947-6

Query Match 25.6%; Score 52; DB 10; Length 822;  
Best Local Similarity 33.3%; Pred. No. 1.2e+02;  
Matches 14; Conservative 7; Mismatches 13; Indels 8; Gaps 2;

Qy 2 HRRSSAQRDTRPTMA--PPDPWLLHPVVA-----VADSP 35  
Db 762 HKRVDSGCGDSGGLMCCERPGESWVYVGVTSWGYGCGVADSP 803

RESULT 10

US-10-156-761-12063  
Sequence 12063, Application US/10156761  
Publication No. US20030119018A1  
GENERAL INFORMATION:

APPLICANT: OMURA, SATOSHI  
APPLICANT: IKEDA, HARUO  
APPLICANT: ISHIKAWA, JUN  
APPLICANT: HORIKAWA, HIROSHI  
APPLICANT: SHIBA, TADAYOSHI  
APPLICANT: SAKAKI, YOSHIYUKI  
APPLICANT: HATTORI, MASAMIRA  
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
FILE REFERENCE: 249-262  
CURRENT APPLICATION NUMBER: US/10/156,761  
CURRENT FILING DATE: 2002-05-29  
PRIOR APPLICATION NUMBER: JP 2001-204089  
PRIOR FILING DATE: 2001-05-30  
PRIOR APPLICATION NUMBER: JP 2001-272697  
PRIOR FILING DATE: 2001-08-02  
NUMBER OF SEQ ID NOS: 15109  
SEQ ID NO 12063  
LENGTH: 653  
TYPE: PRT  
ORGANISM: Streptomyces avermitilis  
US-10-156-761-12063

Query Match 25.4%; Score 51.5; DB 15; Length 653;  
Best Local Similarity 27.7%; Pred. No. 1.1e+02;  
Matches 18; Conservative 2; Mismatches 16; Indels 29; Gaps 2;

Qy 3 RRRSSAQRDTRPTMA-----FDPWLLHPVV-AVAD 33  
Db 135 RRRRFAGHGDPDLPPLPPPHAPPPVEDDARSMTTHTLAATQFDPWFADLVVHQVVD 194  
Qy 34 SPSSA 38  
Db 195 EPYRA 199

RESULT 11

US-10-072-036-131  
Sequence 131, Application US/10072036  
Publication No. US20030082564A1  
GENERAL INFORMATION:

APPLICANT: Ole THASTRUP  
APPLICANT: Sara BJORN  
APPLICANT: Soren TULLIN  
APPLICANT: Kaasper ALMHOLT  
APPLICANT: Kurt SCUDDER  
TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I  
FILE REFERENCE: 3759-0120P  
CURRENT APPLICATION NUMBER: US/10/072,036  
CURRENT FILING DATE: 2002-09-13  
PRIOR APPLICATION NUMBER: 09/417,197  
PRIOR FILING DATE: 1999-10-07  
NUMBER OF SEQ ID NOS: 143  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 131  
LENGTH: 1171  
TYPE: PRT

ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: EGFP-NFAT fusion  
US-10-072-036-131

Query Match 25.4%; Score 51.5; DB 15; Length 1171;  
Best Local Similarity 30.5%; Pred. No. 2e+02;  
Matches 18; Conservative 5; Mismatches 11; Indels 25; Gaps 3;

Qy 1 GHRSSAQRDTRPTMA-----PPDPWLL-----HPVVAADSPS 36  
Db 909 GKRRSQPHFTYHPVPAIKTEPTDEYDPTLICSPTHGGLGSGPYYPQHFW--VAESPS 965

RESULT 12

US-10-072-036-133  
Sequence 133, Application US/10072036  
Publication No. US20030082564A1  
GENERAL INFORMATION:

APPLICANT: Ole THASTRUP  
APPLICANT: Sara BJORN  
APPLICANT: Soren TULLIN  
APPLICANT: Kaasper ALMHOLT  
APPLICANT: Kurt SCUDDER  
TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I  
FILE REFERENCE: 3759-0120P  
CURRENT APPLICATION NUMBER: US/10/072,036  
CURRENT FILING DATE: 2002-09-13  
PRIOR APPLICATION NUMBER: 09/417,197  
PRIOR FILING DATE: 1999-10-07  
NUMBER OF SEQ ID NOS: 143  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 133  
LENGTH: 1181  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: NFAT-EGFP fusion  
US-10-072-036-133

Query Match 25.4%; Score 51.5; DB 15; Length 1181;  
Best Local Similarity 30.5%; Pred. No. 2e+02;  
Matches 18; Conservative 5; Mismatches 11; Indels 25; Gaps 3;

Qy 1 GHRSSAQRDTRPTMA-----PPDPWLL-----HPVVAADSPS 36  
Db 663 GKRRSQPHFTYHPVPAIKTEPTDEYDPTLICSPTHGGLGSGPYYPQHFW--VAESPS 719

RESULT 13

US-09-925-299-958  
Sequence 958, Application US/09925299  
Patent No. US20020055627A1  
GENERAL INFORMATION:

APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA102  
CURRENT APPLICATION NUMBER: US/09/925,299  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05883  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 1556  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 958  
LENGTH: 248  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (7)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-925-239-958

Query Match 25.1%; Score 51; DB 9; Length 248;  
Best Local Similarity 50.0%; Pred. No. 48;  
Matches 13; Conservative 1; Mismatches 12; Indels 0; Gaps 0;

QY 5 RSSAQRDTREPTMAPDPWLLHPVVA 30  
DB 127 RSYDACDTLRPRDVTDFDPVLVDPVVA 152

RESULT 14

US-09-925-239-958  
Sequence 958, Application US/09925299  
Publication No. US20030040617A9

GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA102  
CURRENT APPLICATION NUMBER: US/09/925,299  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05883  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 1556  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO: 958  
LENGTH: 248  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (7)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-925-239-958

Query Match 25.1%; Score 51; DB 11; Length 248;  
Best Local Similarity 50.0%; Pred. No. 48;  
Matches 13; Conservative 1; Mismatches 12; Indels 0; Gaps 0;

QY 5 RSSAQRDTREPTMAPDPWLLHPVVA 30  
DB 127 RSYDACDTLRPRDVTDFDPVLVDPVVA 152

RESULT 15

US-09-764-853-599  
Sequence 599, Application US/09764853  
Patent No. US20020090672A1

GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PJ206  
CURRENT APPLICATION NUMBER: US/09/764,853  
CURRENT FILING DATE: 2001-01-17  
Prior application data removed - consult PALM or file wrapper  
NUMBER OF SEQ ID NOS: 939  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO: 599  
LENGTH: 103  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (9)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-764-853-599

Query Match 24.9%; Score 50.5; DB 9; Length 103;  
Best Local Similarity 31.6%; Pred. No. 22;  
Matches 12; Conservative 6; Mismatches 17; Indels 3; Gaps 1;

QY 1 GHRSSAQRD---TREPTMAPDPWLLHPVAVADSP 35  
DB 23 GSERSSGSEKKQVINCNPPEPAPLPFWLLGAPLVREAP 60

Search completed: July 25, 2003, 13:08:12  
Job time : 11.2057 secs



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OM protein - protein search, using sw model

Run on: July 25, 2003, 12:38:05 ; Search time 2.95429 Seconds  
(without alignments)  
315.081 Million cell updates/sec

Title: US-09-987-357-4  
Perfect score: 116  
Sequence: 1 MALFDPWILHPVAVADSPSRA 22

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	116	100.0	22	US-09-452-817-4	Sequence 4, Appli
2	109	94.0	38	US-09-452-817-3	Sequence 3, Appli
3	45	38.8	321	US-09-252-991A-30008	Sequence 30008, A
4	43.5	37.5	148	US-09-252-991A-28274	Sequence 28274, A
5	43.5	37.5	493	US-09-252-991A-30722	Sequence 30722, A
6	43	37.1	414	US-09-252-991A-17176	Sequence 17176, A
7	42	36.2	154	US-09-252-991A-21178	Sequence 21178, A
8	42	36.2	323	US-09-252-991A-26419	Sequence 26419, A
9	42	36.2	371	US-09-252-991A-28868	Sequence 28868, A
10	42	36.2	407	US-09-252-991A-24418	Sequence 24418, A
11	42	36.2	438	US-09-252-991A-27349	Sequence 27349, A
12	42	36.2	512	US-09-252-991A-22339	Sequence 22339, A
13	42	36.2	774	US-09-328-352-5361	Sequence 5361, Ap
14	41	35.3	50	US-09-227-357-594	Sequence 594, App
15	41	35.3	259	US-09-198-452A-1121	Sequence 1121, Ap
16	41	35.3	355	US-09-328-352-6556	Sequence 6556, Ap
17	41	35.3	377	US-09-252-991A-10472	Sequence 10472, A
18	41	35.3	396	US-09-198-452A-147	Sequence 147, App
19	41	35.3	483	US-09-252-991A-19224	Sequence 19224, A
20	41	35.3	523	US-09-252-991A-18693	Sequence 18693, A
21	41	35.3	836	US-09-252-991A-23513	Sequence 23513, A
22	40.5	34.9	334	US-09-252-991A-18766	Sequence 18766, A
23	40.5	34.9	420	US-09-328-352-5907	Sequence 5907, Ap
24	40	34.5	207	US-07-656-566-2	Sequence 2, Appli
25	40	34.5	231	US-07-656-566-3	Sequence 3, Appli
26	40	34.5	331	US-09-252-991A-26165	Sequence 26165, A
27					

28	40	34.5	340	US-09-134-001C-3448	Sequence 3448, Ap
29	40	34.5	384	US-09-252-991A-31901	Sequence 31901, A
30	40	34.5	487	US-09-107-532A-6319	Sequence 6319, Ap
31	40	34.5	741	US-09-252-991A-20098	Sequence 20098, A
32	40	34.5	888	US-09-268-140-4	Sequence 4, Appli
33	39.5	34.1	137	US-09-252-991A-29763	Sequence 29763, A
34	39.5	34.1	217	US-09-252-991A-19722	Sequence 19722, A
35	39.5	34.1	473	US-09-252-991A-29560	Sequence 29560, A
36	39	33.6	88	US-09-087-134-18	Sequence 18, Appli
37	39	33.6	262	US-09-252-991A-18803	Sequence 18803, A
38	39	33.6	321	US-09-252-991A-20690	Sequence 20690, A
39	39	33.6	329	US-09-189-527-4	Sequence 4, Appli
40	39	33.6	338	US-09-252-991A-27893	Sequence 27893, A
41	39	33.6	378	US-09-716-865-22	Sequence 22, Appli
42	39	33.6	391	US-09-108-020-53	Sequence 53, Appli
43	39	33.6	397	US-09-087-134-17	Sequence 17, Appli
44	39	33.6	431	US-09-252-991A-23720	Sequence 23720, A
45	39	33.6	598	US-08-272-255-22	Sequence 22, Appli

## ALIGNMENTS

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RESULT 1
US-09-452-817-4
; Sequence 4, Application US/09452817
; Patent No. 6342374
;
GENERAL INFORMATION:
; APPLICANT: Carmichael, David F
; APPLICANT: Anderson, David C
; APPLICANT: Stricklin, George P
; APPLICANT: Welgus, Howard G
;
TITLE OF INVENTION: Human Collagenase Inhibitor, Recombinant Vector System
TITLE OF INVENTION: For Using Same And Recombinant-DNA Method For
FILE REFERENCE: Serial No. 6342374 09/452,817
CURRENT FILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: US/09/452,817
PRIOR FILING DATE: 1995-06-07
PRIOR APPLICATION NUMBER: 08/474,553
PRIOR FILING DATE: 1993-04-21
PRIOR APPLICATION NUMBER: 07/853,018
PRIOR FILING DATE: 1992-03-18
PRIOR APPLICATION NUMBER: 07/517,475
PRIOR FILING DATE: 1990-05-01
PRIOR APPLICATION NUMBER: 07/320,923
PRIOR FILING DATE: 1989-03-08
PRIOR APPLICATION NUMBER: 06/784,319
PRIOR FILING DATE: 1985-10-04
PRIOR APPLICATION NUMBER: 06/699,181
PRIOR FILING DATE: 1985-02-05
NUMBER OF SEQ ID NOS: 20
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-452-817-4
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Query Match 100.0%; Score 116; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 3e-12;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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1 MALFDPWILHPVAVADSPSRA 22  
1 MALFDPWILHPVAVADSPSRA 22

RESULT 2  
US-09-452-817-3  
; Sequence 3, Application US/09452817  
; Patent No. 6342374

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; GENERAL INFORMATION:
; APPLICANT: Carmichael, David P
; APPLICANT: Anderson, David C
; APPLICANT: Stricklin, George P
; APPLICANT: Weisus, Howard G
; TITLE OF INVENTION: Human Collagenase Inhibitor, Recombinant Vector System
; TITLE OF INVENTION: For Using Same And Recombinant-DNA Method For
; TITLE OF INVENTION: Manufacture Of Same
; FILE REFERENCE: Serial No. 6342374 09/452,817
; CURRENT APPLICATION NUMBER: US/09/452,817
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 08/474,553
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/050,739
; PRIOR FILING DATE: 1993-04-21
; PRIOR APPLICATION NUMBER: 07/853,018
; PRIOR FILING DATE: 1992-03-18
; PRIOR APPLICATION NUMBER: 07/517,475
; PRIOR FILING DATE: 1990-05-01
; PRIOR APPLICATION NUMBER: 07/320,923
; PRIOR FILING DATE: 1989-03-08
; PRIOR APPLICATION NUMBER: 06/784,319
; PRIOR FILING DATE: 1985-10-04
; PRIOR APPLICATION NUMBER: 06/699,181
; PRIOR FILING DATE: 1985-02-05
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 38
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-452-817-3
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Query Match      94.0%; Score 109; DB 4; Length 38;
Best Local Similarity 95.5%; Pred. No. 7.5e-11;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1 MALPDPWLHPVAVADSPSR 22
DB 17 MALPDPWLHPVAVADSPSR 38

RESULT 3
US-09-252-991A-30008
; Sequence 30008, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30008
; LENGTH: 321
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-30008
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Query Match      38.8%; Score 45; DB 4; Length 321;
Best Local Similarity 52.6%; Pred. No. 16;
Matches 10; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
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RESULT 4
US-09-252-991A-28274
; Sequence 28274, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28274
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-28274
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Query Match      37.5%; Score 43.5; DB 4; Length 148;
Best Local Similarity 41.7%; Pred. No. 12;
Matches 10; Conservative 2; Mismatches 9; Indels 3; Gaps 1;
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QY 2 ALPDPWLHPVAVADSPSR 22
DB 37 ALPDPWLHPVAVADSPSR 60

RESULT 5
US-09-252-991A-30722
; Sequence 30722, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30722
; LENGTH: 493
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-30722
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Query Match      37.5%; Score 43.5; DB 4; Length 493;
Best Local Similarity 52.4%; Pred. No. 46;
Matches 11; Conservative 3; Mismatches 6; Indels 1; Gaps 1;
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QY 2 ALPDPWLHPVAVADSPSR 21
DB 109 ALPDPWLHPVAVADSPSR 129

RESULT 6
US-09-252-991A-17176
; Sequence 17176, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
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PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 17176  
LENGTH: 414  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-17176

Query Match 37.1%; Score 43; DB 4; Length 414;  
Best Local Similarity 57.1%; Pred. No. 46;  
Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 8 LHPVAVADSPSR 21  
DB 279 LHPVAVADSPSR 292

RESULT 7  
US-09-252-991A-21178  
Sequence 21178, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 21178  
LENGTH: 154  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-21178

Query Match 36.2%; Score 42; DB 4; Length 154;  
Best Local Similarity 50.0%; Pred. No. 22;  
Matches 8; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 6 PMLHPVAVADSPSR 21  
DB 98 PMLHPVAVADSPSR 113

RESULT 8  
US-09-252-991A-26419  
Sequence 26419, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 26419  
LENGTH: 323  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-26419

Query Match 36.2%; Score 42; DB 4; Length 323;  
Best Local Similarity 45.5%; Pred. No. 50;  
Matches 10; Conservative 3; Mismatches 9; Indels 0; Gaps 0;

QY 1 MALPDPMLHPVAVADSPSR 22  
DB 162 IALAPAMLOPKVLVADPSTSA 183

RESULT 9  
US-09-252-991A-28868  
Sequence 28868, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 28868  
LENGTH: 371  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-28868

Query Match 36.2%; Score 42; DB 4; Length 371;  
Best Local Similarity 52.9%; Pred. No. 58;  
Matches 9; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 6 PMLHPVAVADSPSR 22  
DB 47 PMLRLVLPADSGEAA 63

RESULT 10  
US-09-252-991A-24418  
Sequence 24418, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 24418  
LENGTH: 374  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-24418

Query Match 36.2%; Score 42; DB 4; Length 374;  
Best Local Similarity 46.2%; Pred. No. 59;  
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 10 HPVAVADSPSR 22  
DB 344 HPVAKIDTPGKA 356

RESULT 11  
US-09-252-991A-27349

/ Sequence 27349, Application US/09252991A  
/ Patent No. 6551795  
/ GENERAL INFORMATION:  
/ APPLICANT: Marc J. Rubenfield et al.  
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
/ FILE REFERENCE: 107196.136  
/ CURRENT APPLICATION NUMBER: US/09/252,991A  
/ PRIOR FILING DATE: 1999-02-18  
/ PRIOR APPLICATION NUMBER: US 60/074,788  
/ PRIOR FILING DATE: 1998-07-27  
/ NUMBER OF SEQ ID NOS: 33142  
/ SEQ ID NO 27349  
/ LENGTH: 407  
/ TYPE: PRT  
/ ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-27349

Query Match 36.2% Score 42; DB 4; Length 407;  
Best Local Similarity 60.0%; Pred. No. 65;  
Matches 9; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 4 FDPWLLHPVAVADSP 18  
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Db 356 FDPRLVEAFVAVADA 370

RESULT 12  
US-09-252-991A-21521  
/ Sequence 21521, Application US/09252991A  
/ Patent No. 6551795  
/ GENERAL INFORMATION:  
/ APPLICANT: Marc J. Rubenfield et al.  
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
/ FILE REFERENCE: 107196.136  
/ CURRENT APPLICATION NUMBER: US/09/252,991A  
/ PRIOR FILING DATE: 1999-02-18  
/ PRIOR APPLICATION NUMBER: US 60/074,788  
/ PRIOR FILING DATE: 1998-02-18  
/ PRIOR APPLICATION NUMBER: US 60/094,190  
/ PRIOR FILING DATE: 1998-07-27  
/ NUMBER OF SEQ ID NOS: 33142  
/ SEQ ID NO 21521  
/ LENGTH: 438  
/ TYPE: PRT  
/ ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-21521

Query Match 36.2% Score 42; DB 4; Length 438;  
Best Local Similarity 47.4%; Pred. No. 71;  
Matches 9; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

QY 1 MALFDPWLLHPVAVADSP 19  
||| : |||  
Db 169 MALFDDKHPRIIRIAFGP 187

RESULT 13  
US-09-252-991A-22339  
/ Sequence 22339, Application US/09252991A  
/ Patent No. 6551795  
/ GENERAL INFORMATION:  
/ APPLICANT: Marc J. Rubenfield et al.  
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
/ FILE REFERENCE: 107196.136  
/ CURRENT APPLICATION NUMBER: US/09/252,991A  
/ PRIOR FILING DATE: 1999-02-18  
/ PRIOR APPLICATION NUMBER: US 60/074,788  
/ PRIOR FILING DATE: 1998-02-18

/ PRIOR APPLICATION NUMBER: US 60/094,190  
/ PRIOR FILING DATE: 1998-07-27  
/ NUMBER OF SEQ ID NOS: 33142  
/ SEQ ID NO 22339  
/ LENGTH: 512  
/ TYPE: PRT  
/ ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-22339

Query Match 36.2% Score 42; DB 4; Length 512;  
Best Local Similarity 80.0%; Pred. No. 84;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 10 HPVAVADSP 19  
||| : |||  
Db 48 HPVAVADSP 57

RESULT 14  
US-09-328-352-5361  
/ Sequence 5361, Application US/09328352  
/ Patent No. 6562958  
/ GENERAL INFORMATION:  
/ APPLICANT: Gary L. Breton et al.  
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
/ FILE REFERENCE: GTC99-03PA  
/ CURRENT APPLICATION NUMBER: US/09/328,352  
/ PRIOR FILING DATE: 1999-06-04  
/ NUMBER OF SEQ ID NOS: 8252  
/ SEQ ID NO 5361  
/ LENGTH: 774  
/ TYPE: PRT  
/ ORGANISM: Acinetobacter baumannii  
US-09-328-352-5361

Query Match 36.2% Score 42; DB 4; Length 774;  
Best Local Similarity 50.0%; Pred. No. 1,36+02;  
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 3 LFDPWLLHPVAVADSP 16  
||| : |||  
Db 184 LFDPWLLHPVAVADSP 197

RESULT 15  
US-09-227-357-594  
/ Sequence 594, Application US/09227357  
/ Patent No. 6342581  
/ GENERAL INFORMATION:  
/ APPLICANT: Fischer et al.  
/ TITLE OF INVENTION: 123 Human Secreted Proteins  
/ FILE REFERENCE: P2010P1  
/ CURRENT APPLICATION NUMBER: US/09/227,357  
/ PRIOR FILING DATE: 1999-01-08  
/ PRIOR APPLICATION NUMBER: PCT/US98/13684  
/ PRIOR FILING DATE: 1998-07-07  
/ PRIOR APPLICATION NUMBER: 60/051,926  
/ PRIOR FILING DATE: 1997-07-08  
/ PRIOR APPLICATION NUMBER: 60/052,793  
/ PRIOR FILING DATE: 1997-07-08  
/ PRIOR APPLICATION NUMBER: 60/051,925  
/ PRIOR FILING DATE: 1997-07-08  
/ PRIOR APPLICATION NUMBER: 60/051,929  
/ PRIOR FILING DATE: 1997-07-08  
/ PRIOR APPLICATION NUMBER: 60/052,803  
/ PRIOR FILING DATE: 1997-07-08  
/ PRIOR APPLICATION NUMBER: 60/052,732  
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/ PRIOR APPLICATION NUMBER: 60/051,932  
/ PRIOR FILING DATE: 1997-07-08

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; EARLIER APPLICATION NUMBER: 60/051,916
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,930
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; EARLIER APPLICATION NUMBER: 60/055,684
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,984
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,954
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/058,785
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,664
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,660
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,661
; EARLIER FILING DATE: 1997-09-12
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 594
; LENGTH: 50
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-227-357-594

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Query Match      35.3%  Score 41; DB 4; Length 50;
Best Local Similarity 47.6%  Pred. No. 8.8;
Matches 10; Conservative 2; Mismatches 5; Indels 4; Gaps 1;

QY      2 ALPDPWLIHPVAVADSPSRA 22
Db      22 ALFSPWLSNPAVL-----PSRS 38

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Search completed: July 25, 2003, 12:54:59  
Job time : 3.95429 secs



GenCore version 5.1.6  
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OM protein - protein search, using SW model

Run on: July 25, 2003, 12:53:51 ; Search time 5.90857 Seconds

(without alignments)  
442.191 Million cell updates/sec

Title: US-09-987-357-4

Perfect score: 116  
Sequence: 1 MALPDPMLHPVAVADSPSRA.22

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database :

Published Applications\_AA:\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep:\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep:\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep:\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep:\*
- 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep:\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep:\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep:\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep:\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep:\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep:\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep:\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46.5	40.1	149	US-09-895-298-218	Sequence 218, App
2	45.5	39.2	653	US-10-156-761-12063	Sequence 12063, A
3	45	38.8	5877	US-10-142-515-11	Sequence 11, Appl
4	45	38.8	5935	US-10-243-243A-8	Sequence 8, Appl
5	43.5	37.5	372	US-09-738-626-6130	Sequence 6130, Ap
6	42	36.2	81	US-09-729-674-80	Sequence 80, Appl
7	42	36.2	165	US-09-796-692-2163	Sequence 2163, Ap
8	42	36.2	165	US-10-040-862-2163	Sequence 2163, Ap
9	42	36.2	215	US-09-749-728B-23	Sequence 23, Appl
10	42	36.2	215	US-10-157-031-239	Sequence 239, Appl
11	42	36.2	311	US-10-154-506A-2	Sequence 2, Appl
12	42	36.2	311	US-10-154-506A-2	Sequence 5, Appl
13	42	36.2	311	US-10-154-506A-7	Sequence 7, Appl
14	42	36.2	323	US-09-815-242-5190	Sequence 5190, Ap
15	42	36.2	335	US-10-156-761-14847	Sequence 14847, A

16	42	36.2	497	US-10-156-761-9214	Sequence 9214, Ap
17	41	35.3	50	US-09-983-802-594	Sequence 594, App
18	41	35.3	61	US-10-156-761-12072	Sequence 12072, A
19	41	35.3	194	US-10-156-761-13095	Sequence 13095, A
20	41	35.3	228	US-10-156-761-10048	Sequence 10048, A
21	41	35.3	233	US-10-184-191-16	Sequence 16, Appl
22	41	35.3	641	US-10-156-761-9373	Sequence 9373, Ap
23	41	35.3	1536	US-09-801-368-322	Sequence 322, App
24	40.5	34.9	515	US-09-759-010-8	Sequence 8, Appl
25	40	34.5	97	US-10-083-357-708	Sequence 708, App
26	40	34.5	268	US-09-815-242-11314	Sequence 11314, A
27	40	34.5	268	US-09-815-242-11495	Sequence 11495, A
28	40	34.5	308	US-10-028-072-1100	Sequence 100, App
29	40	34.5	308	US-10-121-049-1100	Sequence 100, App
30	40	34.5	308	US-10-123-904-1100	Sequence 100, App
31	40	34.5	308	US-10-140-470-1100	Sequence 100, App
32	40	34.5	308	US-10-175-746-1100	Sequence 100, App
33	40	34.5	308	US-10-176-918-1100	Sequence 100, App
34	40	34.5	308	US-10-176-921-1100	Sequence 100, App
35	40	34.5	308	US-10-137-865-1100	Sequence 100, App
36	40	34.5	308	US-10-140-474-1100	Sequence 100, App
37	40	34.5	308	US-10-142-431-1100	Sequence 100, App
38	40	34.5	308	US-10-143-114-1100	Sequence 100, App
39	40	34.5	308	US-10-140-002-1100	Sequence 100, App
40	40	34.5	308	US-10-142-419-1100	Sequence 100, App
41	40	34.5	308	US-10-123-262-1100	Sequence 100, App
42	40	34.5	308	US-10-142-423-1100	Sequence 100, App
43	40	34.5	308	US-10-121-050-1100	Sequence 100, App
44	40	34.5	308	US-10-141-755-1100	Sequence 100, App
45	40	34.5	308	US-10-143-032-1100	Sequence 100, App

## ALIGNMENTS

```
RESULT 1
US-09-895-298-218
; Sequence 218, Application US/09895298
; Publication No. US20030078405A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 47 Human Secreted Proteins
; FILE REFERENCE: P2035P1
; CURRENT APPLICATION NUMBER: US/09/895,298
; CURRENT FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: 09/591,16
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: PCT/US99/29950
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: 60/113,006
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 60/112,809
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 218
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-895-298-218
Query Match          40.1% Score 46.5; DB 11; Length 149;
Best Local Similarity 45.0%; Pred. No. 17;
Matches 9; Conservative 3; Mismatches 5; Indels 3; Gaps 1;
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QY 6 PWLHPVAV---ADSPSRA 22  
|||::|||  
Db 6 PWTAGPILVWVDPDASRA 25

RESULT 2  
US-10-156-761-12063  
; Sequence 12063, Application US/10156761

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/ Publication No. US20030119018A1
/ GENERAL INFORMATION:
/ APPLICANT: OKURA, SATOSHI
/ APPLICANT: IKEDA, HARO
/ APPLICANT: ISHIKAWA, JUN
/ APPLICANT: HORIKAWA, HIROSHI
/ APPLICANT: SHIBA, TADAYOSHI
/ APPLICANT: SAKAKI, YOSHIYUKI
/ APPLICANT: HATTORI, MASAHIRA
/ TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
/ FILE REFERENCE: 249-262
/ CURRENT APPLICATION NUMBER: US/10/156,761
/ CURRENT FILING DATE: 2002-05-29
/ PRIOR APPLICATION NUMBER: JP 2001-204089
/ PRIOR FILING DATE: 2001-05-30
/ PRIOR APPLICATION NUMBER: JP 2001-272697
/ PRIOR FILING DATE: 2001-08-02
/ NUMBER OF SEQ ID NOS: 15109
/ SEQ ID NO 12063
/ LENGTH: 653
/ TYPE: PRT
/ ORGANISM: Streptomyces avermitilis
US-10-156-761-12063
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Query Match          39.2%; Score 45.5; DB 15; Length 653;
Best Local Similarity 55.0%; Pred. No. 1.1e+02;
Matches 11; Conservative 0; Mismatches 8; Indels 1; Gaps 1;
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QY 4 PDLHPVAVADSPSRA 22
DB 180 PDLHPVAVADSPSRA 199
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RESULT 3
US-10-142-515-11
/ Sequence 11, Application US/10142515
/ Publication No. US20030078399A1
/ GENERAL INFORMATION:
/ APPLICANT: SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH
/ APPLICANT: Lloyd, Kenneth O.
/ APPLICANT: Yin, Beatrice W.T.
/ TITLE OF INVENTION: Nucleic Acid Sequence Encoding Ovarian Antigen, CA125, and Uses T
/ FILE REFERENCE: 649-A-US
/ CURRENT APPLICATION NUMBER: US/10/142,515
/ CURRENT FILING DATE: 2002-07-23
/ PRIOR APPLICATION NUMBER: US 60/290,480
/ PRIOR FILING DATE: 2001-05-11
/ NUMBER OF SEQ ID NOS: 11
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 11
/ LENGTH: 5877
/ TYPE: PRT
/ ORGANISM: Human Being
/ FEATURE:
/ NAME/KEY: MISC FEATURE
/ LOCATION: (1)..(5877)
/ OTHER INFORMATION: Amino acid sequence of MUC16B
US-10-142-515-11
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Query Match          38.8%; Score 45; DB 15; Length 5877;
Best Local Similarity 60.0%; Pred. No. 1.2e+03;
Matches 9; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
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QY 6 PDLHPVAVADSPS 20
DB 750 PDLHPVAVADSPS 764
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RESULT 4
US-10-243-243A-8
/ Sequence 8, Application US/10243243A
/ Publication No. US20030104442A1
/ GENERAL INFORMATION:
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```
/ APPLICANT: Lloyd, Kenneth O.
/ APPLICANT: Yin, Beatrice W.T.
/ TITLE OF INVENTION: Nucleic Acid Sequence Encoding Ovarian Antigen, CA125, and Uses T
/ FILE REFERENCE: 649-B
/ CURRENT APPLICATION NUMBER: US/10/243,243A
/ CURRENT FILING DATE: 2002-09-19
/ PRIOR APPLICATION NUMBER: US 10/142,515
/ PRIOR FILING DATE: 2002-05-09
/ PRIOR APPLICATION NUMBER: PCT/US02/14768
/ PRIOR FILING DATE: 2002-05-09
/ PRIOR APPLICATION NUMBER: US 60/290,480
/ PRIOR FILING DATE: 2001-05-11
/ NUMBER OF SEQ ID NOS: 10
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 8
/ LENGTH: 5935
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: MISC FEATURE
/ LOCATION: (1)..(5935)
/ OTHER INFORMATION: Amino acid sequence of MUC16B
US-10-243-243A-8
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Query Match          38.8%; Score 45; DB 15; Length 5935;
Best Local Similarity 60.0%; Pred. No. 1.2e+03;
Matches 9; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
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QY 6 PDLHPVAVADSPS 20
DB 821 PDLHPVAVADSPS 835
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RESULT 5
US-09-738-626-6130
/ Sequence 6130, Application US/09738626
/ Publication No. US20020197605A1
/ GENERAL INFORMATION:
/ APPLICANT: NAKAGAWA, SATOSHI
/ APPLICANT: MIZOGUCHI, HIROSHI
/ APPLICANT: ANDO, SEIKO
/ APPLICANT: HAYASHI, MIKIRO
/ APPLICANT: OCHIAI, KEIKO
/ APPLICANT: YOKOI, HARUHIKO
/ APPLICANT: TATEISHI, NAOKO
/ APPLICANT: SENOH, AKIHIRO
/ APPLICANT: IKEDA, MASATO
/ APPLICANT: OZAKI, AKIO
/ TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
/ FILE REFERENCE: 249-125
/ CURRENT APPLICATION NUMBER: US/09/738,626
/ CURRENT FILING DATE: 2000-12-18
/ PRIOR APPLICATION NUMBER: JP 99/377484
/ PRIOR FILING DATE: 1999-12-16
/ PRIOR APPLICATION NUMBER: JP 00/159162
/ PRIOR FILING DATE: 2000-04-07
/ PRIOR APPLICATION NUMBER: JP 00/280988
/ PRIOR FILING DATE: 2000-08-03
/ NUMBER OF SEQ ID NOS: 7059
/ SOFTWARE: PatentIn ver. 3.0
/ SEQ ID NO 6130
/ LENGTH: 372
/ TYPE: PRT
/ ORGANISM: Corynebacterium glutamicum
US-09-738-626-6130
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```
Query Match          37.5%; Score 43.5; DB 10; Length 372;
Best Local Similarity 37.0%; Pred. No. 1.2e+02;
Matches 10; Conservative 6; Mismatches 6; Indels 5; Gaps 2;
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```
QY 1 MALPDP-WLH----PVLAVADSPSRA 22
DB 210 MALPDP-WLH-SDRTPVAVASALATA 236
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      PRIOR APPLICATION NUMBER: 60/218,950
      PRIOR FILING DATE: 2000-07-14
      PRIOR APPLICATION NUMBER: 60/222,903
      PRIOR FILING DATE: 2000-08-03
      PRIOR APPLICATION NUMBER: 60/223,416
      PRIOR FILING DATE: 2000-08-04
      PRIOR APPLICATION NUMBER: 60/223,378
      PRIOR FILING DATE: 2000-08-07
      NUMBER OF SEQ ID NOS: 9597
      SOFTWARE: FastSeq for Windows Version 3.0
      SEQ ID NO 2163
      LENGTH: 165
      TYPE: PRT
      ORGANISM: Homo sapiens
      FEATURE:
      NAME/KEY: variant
      LOCATION: (1)..(165)
      OTHER INFORMATION: Xaa = Any amino acid
      US-09-796-692-2163

Query Match          36.2%; Score 42; DB 10; Length 165;
Best Local Similarity 42.1%; Pred. No. 86;
Matches      8; Conservative      3; Mismatches      8; Indels      0; Gaps      0;

QY              3 LFDPMILHPVAVADSPSR 21
                |||||               :||:
Db             135 LLDPMWQTPAEDVPPLNPSK 153

RESULT 8
US-10-040-862-2163
Sequence 2163, Application US/10040862
Publication No. US2003078396A1
GENERAL INFORMATION:
APPLICANT: Gaiger, Alexander
APPLICANT: Algate, Paul A.
APPLICANT: Mannion, Jane
APPLICANT: Reiter, Marc
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
FILE REFERENCE: 014058-013520US
CURRENT APPLICATION NUMBER: US/10/040,862
CURRENT FILING DATE: 2001-11-06
PRIOR APPLICATION NUMBER: US 60/186,126
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: US 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: US 60/200,545
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: US 60/200,303
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: US 60/200,779
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: US 60/200,999
PRIOR FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: US 60/202,084
PRIOR FILING DATE: 2000-05-04
PRIOR APPLICATION NUMBER: US 60/206,201
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: US 60/218,950
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: US 60/222,903
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: US 60/223,416
PRIOR FILING DATE: 2000-08-04
PRIOR APPLICATION NUMBER: US 60/223,378
PRIOR FILING DATE: 2000-08-07
PRIOR APPLICATION NUMBER: US 09/796,692
PRIOR FILING DATE: 2001-03-01
NUMBER OF SEQ ID NOS: 10467
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2163

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LENGTH: 165  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: variant  
LOCATION: (1)...(165)  
OTHER INFORMATION: Xaa = Any amino acid  
US-10-040-862-2163

Query Match  
Best Local Similarity 42.1%; Score 42; DB 15; Length 165;  
Matches 8; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

Qy 3 LFDPMILHPVAVADSPSR 21  
Db 135 LDDPMWQTPEADVPPLNPSK 153

RESULT 9  
US-09-749-728B-23  
Sequence 23, Application US/09749728B  
Patent No. US20020142457A1  
GENERAL INFORMATION:  
APPLICANT: Umezawa, Akihito  
APPLICANT: Hata, Jun-ichi  
APPLICANT: Fukuda, Keiichi  
APPLICANT: Ogawa, Satoshi  
APPLICANT: Sakurada, Kazuhiro  
APPLICANT: Gojo, Satoshi  
APPLICANT: Yamada, Yoji  
TITLE OF INVENTION: THE CELL HAVING THE POTENTIALITY OF DIFFERENTIATION INTO CARDIOMY  
FILE REFERENCE: 00766.000043  
CURRENT APPLICATION NUMBER: US/09/749,728B  
CURRENT FILING DATE: 2001-09-17  
PRIOR APPLICATION NUMBER: H11-372826  
PRIOR FILING DATE: 1999-12-28  
PRIOR APPLICATION NUMBER: PCT-JP00-01148  
PRIOR FILING DATE: 2000-02-28  
PRIOR APPLICATION NUMBER: PCT-JP00-07741  
PRIOR FILING DATE: 2000-11-02  
NUMBER OF SEQ ID NOS: 80  
SOFTWARE: Patentin Ver.2.0  
SEQ ID NO 23  
LENGTH: 215  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-749-728B-23

Query Match  
Best Local Similarity 47.1%; Score 42; DB 10; Length 215;  
Matches 8; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

Qy 4 FDDPMILHPVAVADSPS 20  
Db 42 FQSWLSPADAPDFPA 58

RESULT 10  
US-10-157-031-239  
Sequence 239, Application US/10157031  
Publication No. US20030108890A1  
GENERAL INFORMATION:  
APPLICANT: Baranova, A. V.  
APPLICANT: Yankovsky, N. K.  
APPLICANT: Kozlov, A. P.  
APPLICANT: Lobashev, A. V.  
APPLICANT: Krukovskaya, E. L.  
TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequences  
FILE REFERENCE: 2760-103  
CURRENT APPLICATION NUMBER: US/10/157,031  
CURRENT FILING DATE: 2002-05-30  
NUMBER OF SEQ ID NOS: 415  
SOFTWARE: Patentin version 3.1

SEQ ID NO 239  
LENGTH: 215  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-157-031-239

Query Match  
Best Local Similarity 47.1%; Score 42; DB 15; Length 215;  
Matches 8; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

Qy 4 FDDPMILHPVAVADSPS 20  
Db 42 FQSWLSPADAPDFPA 58

RESULT 11  
US-10-154-506A-2  
Sequence 2, Application US/10154506A  
Publication No. US20030125231A1  
GENERAL INFORMATION:  
APPLICANT: Li, Jun et al.  
TITLE OF INVENTION: Methods and Compounds for the Diagnosis of Inflammatory Disease a  
TITLE OF INVENTION: Identification of Pharmacological Agents Useful in the Treatment  
FILE REFERENCE: 9/206-217  
CURRENT APPLICATION NUMBER: US/10/154,506A  
CURRENT FILING DATE: 2002-05-23  
PRIOR APPLICATION NUMBER: US 60/292,968  
PRIOR FILING DATE: 2001-05-23  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 2  
LENGTH: 311  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-154-506A-2

Query Match  
Best Local Similarity 42.1%; Score 42; DB 15; Length 311;  
Matches 8; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

Qy 3 LFDPMILHPVAVADSPSR 21  
Db 281 LDDPMWQTPEADVPPLNPSK 299

RESULT 12  
US-10-154-506A-5  
Sequence 5, Application US/10154506A  
Publication No. US20030125231A1  
GENERAL INFORMATION:  
APPLICANT: Li, Jun et al.  
TITLE OF INVENTION: Methods and Compounds for the Diagnosis of Inflammatory Disease at  
TITLE OF INVENTION: Identification of Pharmacological Agents Useful in the Treatment  
FILE REFERENCE: 9/206-217  
CURRENT APPLICATION NUMBER: US/10/154,506A  
CURRENT FILING DATE: 2002-05-23  
PRIOR APPLICATION NUMBER: US 60/292,968  
PRIOR FILING DATE: 2001-05-23  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 5  
LENGTH: 311  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE: PEPTIDE  
NAME/KEY: (311)  
LOCATION: (1)...(311)  
OTHER INFORMATION:  
PUBLICATION INFORMATION:  
DATABASE ACCESSION NUMBER: AB042425  
DATABASE ENTRY DATE: 2000-05-11

RELEVANT RESIDUES: (1)..(311)  
US-10-154-506A-5

Query Match 36.2% Score 42; DB 15; Length 311;  
Best Local Similarity 42.1% Pred. No. 1.6e+02;

Matches 8; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

Qy 3 LFDPMWLPVVAADSPSR 21  
| | | | | : | | :  
| | | | | : | | :  
Db 281 LLDPMWQTPAEVDVPLNPSK 299

RESULT 13  
US-10-154-506A-7  
Sequence 7, Application US/10154506A  
Publication No. US20030125231A1  
GENERAL INFORMATION:  
APPLICANT: Li, Jun et al.  
TITLE OF INVENTION: Methods and Compounds for the Diagnosis of Inflammatory Disease  
TITLE OF INVENTION: Identification of Pharmacological Agents Useful in the Treatment  
FILE REFERENCE: 9/206-217  
CURRENT APPLICATION NUMBER: US/10/154,506A  
CURRENT FILING DATE: 2002-05-23  
PRIOR APPLICATION NUMBER: US 60/292,968  
PRIOR FILING DATE: 2001-05-23  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 7  
LENGTH: 311  
TYPE: PRT  
ORGANISM: Homo sapiens  
PUBLICATION INFORMATION:  
DATABASE ACCESSION NUMBER: XP 010208  
DATABASE ENTRY DATE: 2001-07-12  
RELEVANT RESIDUES: (1)..(311)  
US-10-154-506A-7

Query Match 36.2% Score 42; DB 15; Length 311;  
Best Local Similarity 42.1% Pred. No. 1.6e+02;

Matches 8; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

Qy 3 LFDPMWLPVVAADSPSR 21  
| | | | | : | | :  
| | | | | : | | :  
Db 281 LLDPMWQTPAEVDVPLNPSK 299

RESULT 14  
US-09-815-242-5190  
Sequence 5190, Application US/09815242  
Patent No. US20020061569A1  
GENERAL INFORMATION:  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Karl L.  
APPLICANT: Zyskind, Judith W.  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John D.  
APPLICANT: Carr, Grant J.  
APPLICANT: Yamamoto, Robert T.  
APPLICANT: Xu, H. Howard  
TITLE OF INVENTION: Identification of Essential Genes in  
FILE REFERENCE: ELITRA.011A  
CURRENT APPLICATION NUMBER: US/09/815,242  
CURRENT FILING DATE: 2001-03-21  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23

PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
NUMBER OF SEQ ID NOS: 1410  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 5190  
LENGTH: 323  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-815-242-5190

Query Match 36.2% Score 42; DB 9; Length 323;  
Best Local Similarity 45.5% Pred. No. 1.7e+02;

Matches 10; Conservative 3; Mismatches 9; Indels 0; Gaps 0;

Qy 1 MALFDPWLPVVAADSPSR 22  
| | | | | : | | :  
| | | | | : | | :  
Db 162 IALRAMWLQPKVLVADDEPTSA 183

RESULT 15  
US-10-156-761-14847  
Sequence 14847, Application US/10156761  
Publication No. US20030119018A1  
GENERAL INFORMATION:  
APPLICANT: OMURA, SATOSHI  
APPLICANT: IKEDA, HARUO  
APPLICANT: ISHIKAWA, JUN  
APPLICANT: HORIKAWA, HIROSHI  
APPLICANT: SHIBA, TADAYOSHI  
APPLICANT: SAKAKI, YOSHIYUKI  
APPLICANT: HATTORI, MASAHIRA  
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
FILE REFERENCE: 249-262  
CURRENT APPLICATION NUMBER: US/10/156,761  
CURRENT FILING DATE: 2002-05-29  
PRIOR APPLICATION NUMBER: JP 2001-204089  
PRIOR FILING DATE: 2001-05-30  
PRIOR APPLICATION NUMBER: JP 2001-272697  
PRIOR FILING DATE: 2001-08-02  
NUMBER OF SEQ ID NOS: 15109  
SEQ ID NO 14847  
LENGTH: 335  
TYPE: PRT  
ORGANISM: Streptomyces avermitilis  
US-10-156-761-14847

Query Match 36.2% Score 42; DB 15; Length 335;  
Best Local Similarity 39.1% Pred. No. 1.8e+02;

Matches 9; Conservative 2; Mismatches 6; Indels 6; Gaps 1;

Qy 6 PWLHP-----VVAADSPSR 22  
| | | | | : | | :  
| | | | | : | | :  
Db 212 PWAREPVVISGTIAVADTPQNA 234

Search completed: July 25, 2003, 13:08:13  
Job time : 6.90857 secs

